

K1A 0S5

Public Works and **Government Services** Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL Division/Services professionnels en informatique - division EL 4C2, Place du Portage Gatineau Québec

/HST /TVH

CONTRACT - CONTRAT

Your proposal is accepted to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price or prices set out therefor.

Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les biens, services et construction énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur 102444452PG0013

IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive Ottawa

Ontario K1G4K9 Canada

Requisition No N° de la demande 47060-152116			
File No N° de dossier	CCC No./N° CCC	- FMS No./N° \	/ME
615el.47060-152116			
Financial Code(s) Code(s) financier(s) 1911-100-10 20008576 254	7/34201		GST/HST TPS/TVH
F.O.B F.A.B. Destination			
GST/HST - TPS/TVH	Duty - Droits		
Included - Inclus	See Herein - Vo	ir ci-inclus	
Destination - of Goods, Sen Destination - des biens, sen CANADA BORDER SERV 330 North River Road, Onta	vices et constructi ICES AGENCY (C trio, K1A 0L8	on: CBSA)	
Factures - Envoyer l'origina Canada Border Service Age Agence des services frontali vendors-fournisseurs@cbsa- (National Invoice Reception 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7	al et deux copies à: ncy ers du Canada -asfc.gc.ca (Preferr		
Address Enquiries to: - Adr Ghaddab, Nabil	esser toutes quest	ions à:	Buyer ld - ld de l'acheteur 615el
Telephone No N° de télép (973) 469-4984 ()	hone	FAX No N°	de FAX
Total Estimated Cost - Coût \$1,756,358.10	total estimatif	Currency Ty CAD	pe - Devise
For the Minister - Pour le M	inistre d	Palo .	





K1A 0S5

Travaux publics et Services aouvernementaux Canada

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Purchasing	Office -	Bureau	des	acnats:

Informatics Professional Services - EL Division/Services professionnels en informatique - division EL 4C2, Place du Portage Gatineau Québec

Title - Sujet RFP· Resource & Solution Based	
Contract No N° du contrat	Date
47060-152116/001/EL	2017-01-30
Client Deference No. Nº de référence du client	

Client Reference No. - N° de référence du client

1000322116

47060-152116

File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME

615el.47060-152116

Financial Code(s)

Code(s) financier(s) 1911-100-10 20008576 2547/34201

Requisition No. - N° de la demande

GST/HST TPS/TVH

CONTRACT - CONTRAT

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Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les biens, services et construction énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

F.O.B. - F.A.B. Destination

GST/HST - TPS/TVH **Duty - Droits**

Included - Inclus See Herein - Voir ci-inclus

Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive Ottawa

Ontario K1G4K9 Canada

Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à:

Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questi	ions à:	Buyer Id - Id de l'acheteur
Ghaddab, Nabil		615el
Telephone No N° de téléphone	FAX No N°	de FAX
(973) 469-4984 ()	() -	

Currency Type - Devise Total Estimated Cost - Coût total estimatif CAD \$1,756,358.10

For the Minister - Pour le Ministre



Page 1 of - de 1 000002

CONTRACT AGAINST A SUPPLY ARRANGEMENT FOR TASK- BASED INFORMATICS PROFESSIONAL SERVICES (TBIPS)

FOR

VARIOUS RESOURCE CATEGORIES – LEVEL 3 (SEE HEREIN)

ON BEHALF OF

THE CANADA BORDER SERVICES AGENCY

This document contains a security requirement

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List of Annexes to the Resulting Contract:

- Annex A Statement of Work
 - Appendix A Non-Functional Requirements
 - Appendix B Acronyms
 - Appendix C Glossary
 - Appendix D Tasking Assessment Procedure
 - Appendix E Task Authorization (TA) Form
 - Appendix F Resources Assessment Criteria and Response Table
 - Appendix G Certifications at the TA Stage
- Annex B Basis of Payment
- Annex C Security Requirements Check List
- Annex D Non-Disclosure Agreement

1. Requirement

- (a) **IBM Canada Limited** (the "Contractor") agrees to supply to the Client the services described in the Contract, including the Statement of Work, in accordance with, and at the prices set out in, the Contract. This includes providing professional services as and when requested by Canada, to one or more locations to be designated by Canada, excluding any locations in areas subject to any of the Comprehensive Land Claims Agreements.
- (b) Client: Under the Contract, the "Client" is Canada Border Services Agency (CBSA).
- (c) Reorganization of Client: The Contractor's obligation to perform the Work will not be affected by (and no additional fees will be payable as a result of) the renaming, reorganization, reconfiguration, or restructuring of any Client. The reorganization, reconfiguration and restructuring of the Client includes the privatization of the Client, its merger with another entity, or its dissolution, where that dissolution is followed by the creation of another entity or entities with mandates similar to the original Client. In connection with any form of reorganization, Canada may designate another department or government body as the Contracting Authority or Project Authority, as required to reflect the new roles and responsibilities associated with the reorganization.
- (d) **Defined Terms**: Words and expressions defined in the General Conditions or Supplemental General Conditions and used in the Contract have the meanings given to them in the General Conditions or Supplemental General Conditions. Any reference to an Identified User in the Supply Arrangement is a reference to the Client. Also, any reference to a "deliverable" or "deliverables" includes all documentation outlined in this Contract. A reference to a "local office" of the Contractor means an office having at least one full time employee that is not a shared resource working at that location.

2. Task Authorization

- (a) As-and-when-requested Task Authorizations: The Work or a portion of the Work to be performed under the Contract will be on an "as-and-when-requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract. The Contractor must not commence work until a validly issued TA has been issued by Canada and received by the Contractor. The Contractor acknowledges that any work performed before such issuance and receipt will be done at the Contractor's own risk.
- (b) **Assessment of Resources Proposed at TA Stage**: Processes for issuing, responding to and assessing Task Authorizations are further detailed in Appendices D, E, F and G of Annex A.
- (c) Form and Content of draft Task Authorization:
 - (i) The Project Authority will provide the Contractor with a description of the task in a draft Task Authorization using the form specified in Annex A.
 - (ii) The draft Task Authorization will contain the details of the activities to be performed, and must also contain the following information:
 - (A) the task number;
 - (B) The date by which the Contractor's response must be received (which will appear in the draft Task Authorization, but not the issued Task Authorization);
 - (C) the details of any financial coding to be used;
 - (D) the categories of resources and the number required;
 - a description of the work for the task outlining the activities to be performed and identifying any deliverables (such as reports);
 - (F) the start and completion dates;
 - (G) milestone dates for deliverables and payments (if applicable);

- (H) the number of person-days of effort required;
- (I) whether the work requires on-site activities and the location;
- (J) the language profile of the resources required;
- (K) the level of security clearance required of resources;
- (L) the price payable to the Contractor for performing the task under a maximum TA price (the TA must indicate how the final amount payable will be determined; where the TA does not indicate how the final amount payable will be determined, the amount payable is the amount, up to the maximum, that the Contractor demonstrates was actually worked on the project, by submitting time sheets filled in at the time of the work by the individual resources to support the charges); and
- (M) any other constraints that might affect the completion of the task.
- (d) Contractor's Response to Draft Task Authorization: The Contractor must provide to the Project Authority, within 3 working days of receiving the draft Task Authorization (or within any longer time period specified in the draft TA), the proposed total price for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract. The Contractor's quotation must be based on the rates set out in the Contract. The Contractor will not be paid for preparing or providing its response or for providing other information required to prepare and validly issue the TA.
- (e) Task Authorization Limit and Authorities for Validly Issuing Task Authorizations:

To be validly issued, a TA must include the following signatures:

- (A) for any TA, inclusive of revisions, with a value less than or equal to \$300,000.00 (excluding Applicable Taxes), the TA must be signed by the Project Authority; and
- (B) for any TA, inclusive of revisions, with a value greater than this amount, a TA must include the following signatures:
 - (1) the Project Authority; and
 - (2) the Contracting Authority.

Any TA that does not bear the appropriate signature(s) is not validly issued by Canada. Any work performed by the Contractor without receiving a validly issued TA is done at the Contractor's own risk. If the Contractor receives a TA that is not appropriately signed, the Contractor must notify the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Client's ability to issue TA's at any time, or reduce the dollar value threshold described in sub-article (i) above; any suspension or reduction notice is effective upon receipt.

(f) Periodic Usage Reports:

- (i) The Contractor must compile and maintain records on its provision of services to the federal government under Task Authorizations validly issued under the Contract. The Contractor must provide this data to Canada in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report. The data must be submitted on a quarterly basis to the Contracting Authority. From time to time, the Contracting Authority may also require an interim report during a reporting period.
- (ii) The quarterly periods are defined as follows:
 - (A) 1st quarter: April 1 to June 30;
 - (B) 2nd quarter: July 1 to September 30;
 - (C) 3rd quarter: October 1 to December 31; and

(D) 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days after the end of the reporting period.

- (iii) Each report must contain the following information for each validly issued TA (as amended):
 - (A) the Task Authorization number and the Task Authorization Revision number(s), if applicable;
 - (B) a title or a brief description of each authorized task;
 - (C) the name, Resource category and level of each resource involved in performing the TA, as applicable;
 - (D) the total estimated cost specified in the validly issued TA of each task, exclusive of Applicable Taxes;
 - (E) the total amount, exclusive of Applicable Taxes, expended to date against each authorized task:
 - (F) the start and completion date for each authorized task; and
 - (G) the active status of each authorized task, as applicable (e.g., indicate whether work is in progress or if Canada has cancelled or suspended the TA, etc.).
- (g) Refusal of Task Authorizations or Submission of a Response which is not Valid: The Contractor is not required to submit a response to every draft TA sent to it by Canada. However, in addition to Canada's other rights to terminate the Contract, Canada may immediately, and without further notice, terminate the Contract for default in accordance with the General Conditions if the Contractor in at least three instances has either not responded or has not submitted a valid response when sent a draft TA. For greater clarity, each draft TA, which is identifiable by its task number, will only count as one instance. A valid response is one that is submitted within the required time period and meets all requirements of the draft TA issued, including proposing the required number of resources who each meet the minimum experience and other requirements of the categories identified in the draft TA at pricing not exceeding the rates set out in Annex B.
- (h) Consolidation of TA's for Administrative Purposes: The Contract may be amended from time to time to reflect all validly issued Task Authorizations to date, to document the Work performed under those TA's for administrative purposes.
- 3. Minimum Work Guarantee
- (a) In this clause,
 - (i) "Maximum Contract Value" means the amount specified in the "Limitation of Expenditure" clause set out in the Contract (excluding Applicable Taxes); and
 - (ii) "Minimum Contract Value" means \$20,000.00.
- (b) Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with sub-article (c), subject to sub-article (d). In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract Period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
- (c) In the event that Canada does not request work in the amount of the Minimum Contract Value during the Contract Period, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.

- (d) Canada will have no obligation to the Contractor under this article if Canada terminates the entire Contract
 - (i) for default;
 - (ii) for convenience as a result of any decision or recommendation of a tribunal or court that the contract be cancelled, re-tendered or awarded to another supplier; or
 - (iii) for convenience within ten business days of Contract award.

4. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

(a) General Conditions:

 2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

With respect to Section 30 - Termination for Convenience, of General Conditions 2035, Subsection 04 is deleted and replaced with the following Subsections 04, 05 and 06:

- 4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price.
- 5. Where the Contracting Authority terminates the entire Contract and the Articles of Agreement include a Minimum Work Guarantee, the total amount to be paid to the Contractor under the Contract will not exceed the greater of:
 - (a) the total amount the Contractor may be paid under this section, together with any amounts paid, becoming due other than payable under the Minimum Revenue Guarantee, or due to the Contractor as of the date of termination, or
 - (b) the amount payable under the Minimum Work Guarantee, less any amounts paid, due or otherwise becoming due to the Contractor as of the date of termination.
- 6. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

(b) Supplemental General Conditions:

The following Supplemental General Conditions:

- 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
- (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;

apply to and form part of the Contract.

5. Security Requirement

- (a) The following security requirements apply to and form part of the Contract:
 - (i) The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

- (ii) The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of **SECRET**, granted or approved by CISD/PWGSC.
- (iii) The Contractor MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
- (iv) Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- (v) The Contractor must comply with the provisions of the:
 - (A) Security Requirements Check List and security guide (if applicable), attached at Annex C;
 - (B) Industrial Security Manual (Latest Edition).

(b) Additional Security Requirement

- (i) The CBSA, will conduct its own personnel Reliability Status assessment the Contractor (specifically the Contractor personnel), which is allowed under the Treasury Board Secretariat of Canada's (TBS) "Security and Contracting Management Standard" and the Policy on Government Security Personnel Security Standard. Reliability Status assessment conducted by the CBSA will include a credit check.
- (ii) If the Contractor (specifically the Contractor personnel), has already been screened under the TBS Policy on Government Security - Personnel Security Standard, the Contractor (specifically the Contractor personnel), will still undergo a security screening process to be conducted by the CBSA.
- (iii) The credit check and fingerprinting, if required, will be performed by an authorized security official with the CBSA's "Personnel Security Screening Section" (PSSS), which is independent of the Public Works and Government Services Canada's (PWGSC), "Canadian and International Industrial Security Directorate" (CIISD).
- (iv) Until the credit check, fingerprinting (if required) and all other security screening processes required have been completed and the Contractor (specifically the Contractor personnel) is deemed suitable by the CBSA, the Contractor (specifically the Contractor personnel) will not be permitted access to Protected / Classified information or assets, and further, will not be permitted to enter sites where such information or assets are kept.
- (c) The Company Security Officer (CSO) must ensure through the Industrial Security Program (ISP) that the Contractor and individual(s) hold a valid security clearance at the required level.

6. Contract Period

- (a) **Contract Period**: The "**Contract Period**" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends one year later; and
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any options set out in the Contract.

(b) Option to Extend the Contract:

(i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to five additional one-year periods under the same terms and conditions.

The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.

(ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

7. Authorities

(a) Contracting Authority

The Contracting Authority for the Contract is:

Name: Nabil Ghaddab Title: Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate: Space, Innovation, and Informatics Projects Directorate

Address: 11 Laurier St., Gatineau, Québec

Telephone: 873-469-4984

E-mail address: nabil.ghaddab@tpsqc-pwqsc.qc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

(b) Project Authority

The Project Authority for the Contract is:

Erin Lapensee

Telephone: 343-291-6223

Email: Erin.Lapensee@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

In his absence, the Project Authority is:

Robert Penwarden

Telephone: 343-291-5669

Email: Robert.Penwarden@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

OR

Matthew Woods

Telephone: 343-291-5726

Email: Matthew.Woods@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

(c) Contractor's Representative

Name: Wayne Liepmann
Title: Solution Representative

Organization: IBM Canada Ltd.

Address: 3755 Riverside Drive, Ottawa, ON, K1G 4K9

Telephone: E-mail address:

8. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental web sites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

9. Payment

(a) Basis of Payment

- (i) Professional Services provided under a Task Authorization with a Maximum Price: For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor, in arrears, up to the Maximum Price for the TA, for actual time worked and any resulting deliverables in accordance with the firm all-inclusive per diem rates set out in Annex B, Basis of Payment, Applicable Taxes extra. Partial days will be prorated based on actual hours worked based on a 7.5-hour workday.
- (ii) Travel and Living Expenses National Joint Council Travel Directive The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. Travel requests will only be considered for a work location which is located more than 100 kilometers from the National Capital Region. The Contractor will be paid for actual time spent travelling at half the hourly rate. The hourly rate will be determined by dividing the firm per diem rate set out in Annex B by 7.5 hours. All payments are subject to government audit.
- (iii) **Competitive Award**: The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.
- (iv) Professional Services Rates: In Canada's experience, bidders from time to time propose rates at the time of bidding for one or more Resource Categories that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. This denies Canada of the benefit of the awarded contract. If the Contractor does not respond or refuses to provide an individual with the qualifications described in the Contract within the time described in the Contract (or proposes instead to provide someone from an alternate category at a different rate), whether or not Canada terminates the Contract as a whole or in part or chooses to exercise any of the

rights provided to it under the general conditions, Canada may impose sanctions or take other measures in accordance with the PWGSC Vendor Performance Corrective Measure Policy (or equivalent) then in effect, which measures may include an assessment that results in conditions applied against the Contractor to be fulfilled before doing further business with Canada, or full debarment of the Contractor from bidding on future requirements.

(b) Limitation of Expenditure – Cumulative Total of all Task Authorizations

- (i) Canada's total liability to the Contractor under the Contract for all validly issued Task Authorizations (TAs), inclusive of any revisions, must not exceed the amount set out on page 1 of the Contract, less any Applicable taxes. With respect to the amount set out on page 1 of the Contract, Customs duties are excluded and Applicable Taxes are included
- (ii) No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
- (iii) The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - (A) when it is 75 percent committed, or
 - (B) 4 months before the contract expiry date, or
 - (C) As soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,

whichever comes first.

- (iv) If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Providing this information does not increase Canada's liability.
- (c) **Method of Payment for Task Authorizations with a Maximum Price**: For each Task Authorization validly issued under the Contract that contains a maximum price:
 - (i) Canada will pay the Contractor no more frequently than once a month in accordance with the Basis of Payment. The Contractor must submit time sheets for each resource showing the days and hours worked to support the charges claimed in the invoice.
 - (ii) Once Canada has paid the maximum TA price, Canada will not be required to make any further payment, but the Contractor must complete all the work described in the TA, all of which is required to be performed for the maximum TA price. If the work described in the TA is completed in less time than anticipated, and the actual time worked (as supported by the time sheets) at the rates set out in the Contract is less than the maximum TA price, Canada is only required to pay for the time spent performing the work related to that TA.

(d) Time Verification

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contract must repay any overpayment, at Canada's request.

(e) Payment Credits

- (i) Failure to Provide Resource:
 - (A) If the Contractor does not provide a required professional services resource that has all the required qualifications within the time prescribed by the Contract, the Contractor must credit to Canada an amount equal to the per diem rate (based on a 7.5-hour workday) of the required resource for each day (or partial day) of delay in providing the resource, up to a maximum of 10 days.

- (B) Corrective Measures: If credits are payable under this Article for two consecutive months or for three months in any 12-month period, the Contractor must submit a written action plan describing measures it will implement or actions it will undertake to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority and 20 working days to rectify the underlying problem.
- (C) **Termination for Failure to Meet Availability Level**: In addition to any other rights it has under the Contract, Canada may terminate the Contract for default in accordance with the General Conditions by giving the Contractor three months' written notice of its intent, if any of the following apply:
 - (1) the total amount of credits for a given monthly billing cycle reach a level of 10% of the total billing for that month; or
 - (2) the corrective measures required of the Contractor described above are not met.

This termination will be effective when the three month notice period expires, unless Canada determines that the Contractor has implemented the corrective measures to Canada's satisfaction during those three months.

- (ii) Credits Apply during Entire Contract Period: The Parties agree that the credits apply throughout the Contract Period.
- (iii) Credits represent Liquidated Damages: The Parties agree that the credits are liquidated damages and represent their best pre-estimate of the loss to Canada in the event of the applicable failure. No credit is intended to be, nor will it be construed as, a penalty.
- (iv) Canada's Right to Obtain Payment: The Parties agree that these credits are a liquidated debt. To collect the credits, Canada has the right to hold back, draw back, deduct or set off from and against any money Canada owes to the Contractor from time to time.
- (v) Canada's Rights & Remedies not Limited: The Parties agree that nothing in this Article limits any other rights or remedies to which Canada is entitled under the Contract (including the right to terminate the Contract for default) or under the law generally.
- (vi) Audit Rights: The Contractor's calculation of credits under the Contract is subject to verification by government audit, at the Contracting Authority's discretion, before or after payment is made to the Contractor. The Contractor must cooperate fully with Canada during the conduct of any audit by providing Canada with access to any records and systems that Canada considers necessary to ensure that all credits have been accurately credited to Canada in the Contractor's invoices. If an audit demonstrates that past invoices contained errors in the calculation of the credits, the Contractor must pay to Canada the amount the audit reveals was required to be credited to Canada, plus interest, from the date Canada remitted the excess payment until the date of the refund (the interest rate is the Bank of Canada's discount annual rate of interest in effect on the date the credit was first owed to Canada, plus 1.25% per year). If, as a result of conducting an audit, Canada determines that the Contractor's records or systems for identifying, calculating or recording the credits are inadequate, the Contractor must implement any additional measures required by the Contracting Authority.
- (f) No Responsibility to Pay for Work not performed due to Closure of Government Offices
 - (i) Where the Contractor, its employees, subcontractors, or agents are providing services on government premises under the Contract and those premises are inaccessible because of the evacuation or closure of government offices, and as a result no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if there had been no evacuation or closure.

(ii) If, as a result of any strike or lock-out, the Contractor or its employees, subcontractors or agents cannot obtain access to government premises and, as a result, no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if the Contractor had been able to gain access to the premises

10. Invoicing Instructions

- (a) The Contractor must submit invoices in accordance with the information required in the General Conditions.
- (b) The Contractor's invoice must include a separate line item for each subparagraph in the Basis of Payment provision, and must show all applicable Task Authorization numbers.
- (c) By submitting invoices, the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
- (d) The Contractor must provide the original to CBSA National Invoice Receiving Unit (<u>Vendors-Fournisseurs@cbsa-asfc.gc.ca</u>) for processing, and a copy to the Contracting Authority.

11. Certifications

The continuous compliance with the certifications provided by the Contractor in its bid, any TA quotation and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire Contract Period. If the Contractor does not comply with any certification, or fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

12. Federal Contractors Program for Employment Equity - Default by Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

13. Copyright In Material

- (a) In this section, "Material" means anything that is created by the Contractor as part of the Work under the Contract that is required by the Contract to be delivered to Canada and in which copyright subsists, excluding any computer software code and all documentation manuals or guides intended to assist end users or technicians in respect of that code. "Material" does not include anything created by the Contractor before the award date of the Contract.
- (b) Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).
- (c) The Contractor must not use, copy, divulge or publish any Material except as is necessary to perform the Contract. The Contractor must execute any conveyance and other documents relating to copyright in the Material as Canada may require.
- (d) The Contractor must provide at the request of Canada a written permanent waiver of moral rights, in a form acceptable to Canada, from every author that contributed to the Material. If the Contractor is the author of the Material, the Contractor permanently waives its moral rights in the Material.

14. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

15. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the following list, the wording of the document that first appears on the list has priority over the wording of any document that appears later on the list:

- (a) these Articles of Agreement, including any individual SACC clauses incorporated by reference in these Articles of Agreement;
- (b) Supplemental General Conditions, in the following order:
 - 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services:
 - (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) General Conditions 2035 (2016-04-04), Higher Complexity Services;
- (d) Annex A, Statement of Work Annex A including its Appendices as follows;
 - (i) Appendix D to Annex A Tasking Assessment Procedure;
 - (ii) Appendix E to Annex A Task Authorization (TA) Form:
 - (iii) Appendix F to Annex A Resource Assessment Criteria and Response Table;
 - (iv) Appendix G to Annex A Certifications at the TA stage;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Security Requirements Check List);
- (g) Annex D, Non-Disclosure Agreement;
- (h) the validly issued Task Authorizations and any required certifications (including all of their annexes, if any); and
- (i) the Contractor's bid dated November 7, 2016.

16. Foreign Nationals (Canadian Contractor)

(a) SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

17. Insurance Requirements

(a) Compliance with Insurance Requirements

- (i) The Contractor must comply with the insurance requirements specified in this Article. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.
- (ii) The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.
- (iii) The Contractor should forward to the Contracting Authority within ten (10) days after the date of award of the Contract a Certificate of Insurance evidencing the insurance coverage. Coverage must be placed with an Insurer licensed to carry out business in Canada and the Certificate of Insurance must confirm that the insurance policy complying

with the requirements is in force. If the Certificate of Insurance has not been completed and submitted as requested, the Contracting Authority will so inform the Contractor and provide the Contractor with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within the time period will constitute a default under the General Conditions. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

(b) Commercial General Liability Insurance

- (i) The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
- (ii) The Commercial General Liability policy must include the following:
 - (A) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - (B) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (C) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - (D) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - (E) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - (F) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - (G) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (H) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (I) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
 - (J) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - (K) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
 - (L) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

(M) Advertising Injury: While not limited to, the endorsement must include coverage for piracy or misappropriation of ideas, or infringement of copyright, trademark, title or slogan.

(c) Errors and Omissions Liability Insurance

- (i) The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- (ii) If the Professional Liability insurance is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (iii) The following endorsement must be included:
 Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

18. Limitation of Liability - Information Management/Information Technology

(a) This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees. This section applies regardless of whether the claim is based in contract, tort, or another cause of action. The Contractor is not liable to Canada with respect to the performance of or failure to perform the Contract, except as described in this section and in any section of the Contract pre-establishing any liquidated damages. The Contractor is only liable for indirect, special or consequential damages to the extent described in this Article, even if it has been made aware of the potential for those damages.

(b) First Party Liability:

- (i) The Contractor is fully liable for all damages to Canada, including indirect, special or consequential damages, caused by the Contractor's performance or failure to perform the Contract that relate to:
 - (A) any infringement of intellectual property rights to the extent the Contractor breaches the section of the General Conditions entitled "Intellectual Property Infringement and Royalties";
 - (B) physical injury, including death.
- (ii) The Contractor is liable for all direct damages caused by the Contractor's performance or failure to perform the Contract affecting real or tangible personal property owned, possessed, or occupied by Canada.
- (iii) Each of the Parties is liable for all direct damages resulting from any breach of confidentiality under the Contract. Each of the Parties is also liable for all indirect, special or consequential damages in respect of any unauthorized disclosure of the other Party's trade secrets (or trade secrets of a third party provided by one Party to another under the Contract) relating to information technology.
- (iv) The Contractor is liable for all direct damages relating to any encumbrance or claim relating to any portion of the Work for which Canada has made any payment. This does not apply to encumbrances or claims relating to intellectual property rights, which are addressed under (i)(A) above.

- (v) The Contractor is also liable for any other direct damages to Canada caused by the Contractor's performance or failure to perform the Contract that relate to:
 - (A) any breach of the warranty obligations under the Contract, up to the total amount paid by Canada (including any applicable taxes) for the goods and services affected by the breach of warranty; and
 - (B) Any other direct damages, including all identifiable direct costs to Canada associated with re-procuring the Work from another party if the Contract is terminated either in whole or in part for default, up to an aggregate maximum for this subparagraph (B) of the greater of .75 times the total estimated cost (meaning the dollar amount shown on the first page of the Contract in the cell titled "Total Estimated Cost" or shown on each call-up, purchase order or other document used to order goods or services under this instrument), or \$1,000,000.00.

In any case, the total liability of the Contractor under subparagraph (v) will not exceed the total estimated cost (as defined above) for the Contract or \$1,000,000.00, whichever is more.

(vi) If Canada's records or data are harmed as a result of the Contractor's negligence or willful act, the Contractor's only liability is, at the Contractor's own expense, to restore Canada's records and data using the most recent back-up kept by Canada. Canada is responsible for maintaining an adequate back-up of its records and data.

(c) Third Party Claims:

- (i) Regardless of whether a third party makes its claim against Canada or the Contractor, each Party agrees that it is liable for any damages that it causes to any third party in connection with the Contract as set out in a settlement agreement or as finally determined by a court of competent jurisdiction, where the court determines that the Parties are jointly and severally liable or that one Party is solely and directly liable to the third party. The amount of the liability will be the amount set out in the settlement agreement or determined by the court to have been the Party's portion of the damages to the third party. No settlement agreement is binding on a Party unless its authorized representative has approved the agreement in writing.
- (ii) If Canada is required, as a result of joint and several liability or joint and solidarily liable, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada by the amount finally determined by a court of competent jurisdiction to be the Contractor's portion of the damages to the third party. However, despite Subarticle (i), with respect to special, indirect, and consequential damages of third parties covered by this Section, the Contractor is only liable for reimbursing Canada for the Contractor's portion of those damages that Canada is required by a court to pay to a third party as a result of joint and several liability that relate to the infringement of a third party's intellectual property rights; physical injury of a third party, including death; damages affecting a third party's real or tangible personal property; liens or encumbrances on any portion of the Work; or breach of confidentiality.
- (iii) The Parties are only liable to one another for damages to third parties to the extent described in this Sub-article (c).

19. Professional Services - General

(a) The Contractor must provide professional services on request as specified in this Contract. All resources provided by the Contractor must meet the qualifications described in the Contract (including those relating to previous experience, professional designation, education, language proficiency and security clearance) and must be competent to provide the required services by any delivery dates described in the Contract.

- (b) If the Contractor fails to deliver any deliverable (excluding delivery of a specific individual) or complete any task described in the Contract on time, in addition to any other rights or remedies available to Canada under the Contract or the law, Canada may notify the Contractor of the deficiency, in which case the Contractor must submit a written plan to the Project Authority within ten working days detailing the actions that the Contractor will undertake to remedy the deficiency. The Contractor must prepare and implement the plan at its own expense.
- (c) In General Conditions 2035, the Article titled "Replacement of Specific Individuals" is deleted and the following applies instead:

Replacement of Specific Individuals

- (i) If the Contractor is unable to provide the services of any specific individual identified in the Contract to perform the services, the Contractor must within five working days of having this knowledge, the individual's departure or failure to commence Work (or, if Canada has requested the replacement, within ten working days of Canada's notice of the requirement for a replacement) provide to the Contracting Authority:
 - the name, qualifications and experience of a proposed replacement immediately available for Work; and
 - (B) security information on the proposed replacement as specified by Canada, if applicable.

The replacement must have qualifications and experience that meet or exceed those obtained for the original resource.

- (ii) Subject to an Excusable Delay, where Canada becomes aware that a specific individual identified under the Contract to provide services has not been provided or is not performing, the Contracting Authority may elect to:
 - (A) exercise Canada's rights or remedies under the Contract or at law, including terminating the Contract in whole or in part for default under the Article titled "Default of the Contractor", or
 - (B) assess the information provided under (c) (i) above or, if it has not yet been provided, require the Contractor to propose a replacement to be rated by the Project Authority. The replacement must have qualifications and experience that are similar or exceed those obtained for the original resource and be acceptable to Canada. Upon assessment of the replacement, Canada may accept the replacement, exercise the rights in (ii) (A) above, or require another replacement in accordance with this sub-article (c).

Where an Excusable Delay applies, Canada may require (c) (ii) (B) above instead of terminating under the "Excusable Delay" Article. An Excusable Delay does not include resource unavailability due to allocation of the resource to another Contract or project (including those for the Crown) being performed by the Contractor or any of its affiliates.

- (iii) The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that an original or replacement resource stop performing the Work. In such a case, the Contractor must immediately comply with the order. The fact that the Contracting Authority does not order a resource to stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.
- (iv) The obligations in this article apply despite any changes that Canada may have made to the Client's operating environment.

20. Safeguarding Electronic Media

(a) Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work

for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

(b) If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

21. Representations and Warranties

The Contractor made statements regarding its own and its proposed resources' experience and expertise in its bid that resulted in the award of the Contract and the issuance of TA's. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract and adding work to it through TA's. The Contractor also represents and warrants that it has, and all its resources and subcontractors that perform the Work have, and at all times during the Contract Period they will have and maintain, the skills, qualifications, expertise and experience necessary to perform and manage the Work in accordance with the Contract, and that the Contractor (and any resources or subcontractors it uses) has previously performed similar services for other customers.

22. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Project Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor. If Canada chooses, in its discretion, to make its property, facilities, equipment, documentation or personnel available to the Contractor to perform the Work, Canada may require an adjustment to the Basis of Payment and additional security requirements may apply.

23. Government Property

Canada agrees to supply the Contractor with the items listed in Sections 9. Client Support and 12. Technical Environment of Annex A, Statement of Work (the "Government Property"). The section of the General Conditions entitled "Government Property" also applies to the use of the Government Property by the Contractor.

24. Identification Protocol Responsibilities

The Contractor will be responsible for ensuring that each of its agents, representatives or subcontractors (hereinafter referred to as Contractor Representatives) complies with the following self-identification requirements:

- (a) Contractor Representatives who attend a Government of Canada meeting (whether internal or external to Canada's offices) must identify themselves as Contractor Representatives prior to the commencement of the meeting, to ensure that each meeting participant is aware of the fact that the individual is not an employee of the Government of Canada;
- (b) During the performance of any Work at a Government of Canada site, each Contractor Representative must be clearly identified at all times as being a Contractor Representative; and
- (c) If a Contractor Representative requires the use of the Government of Canada's e-mail system in the performance of the Work, then the individual must clearly identify him or herself as an agent or subcontractor of the Contractor in all electronic mail in the signature block as well as under "Properties." This identification protocol must also be used in all other correspondence, communication, and documentation.
- (d) If Canada determines that the Contractor is in breach of any obligation stated in this Article, upon written notice from Canada the Contractor must submit a written action plan describing corrective measures it will implement to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority, and twenty working days to rectify the underlying problem.

(e) In addition to any other rights it has under the Contract, Canada may terminate the Contract for default if the corrective measures required of the Contractor described above are not met.

ANNEX A STATEMENT OF WORK

(SEE ATTACHED HERETO)

ANNEX B BASIS OF PAYMENT

1. Professional Services

In accordance with the Contract, the Contractor will be paid the following firm all-inclusive per diem rates for work performed pursuant to this Contract, Applicable Taxes extra.

Initial Contract Period:

Initial Contract Period From January 30, 2017 to January 29 2018			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	200000000000000000000000000000000000000	
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	**************************************	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	***************************************	

Option Periods:

Option Period 1 From January 30, 2018 to January 29 2019			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	5	

Option Period 2 From January 30, 2019 to January 29 2020				
Resource Category	Level of Expertise	Firm Per Diem Rate		
Application/Software Architect - Specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	LEVEL 3			
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3			
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************		
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************		
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3			
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3			
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3			
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3			

Option Period 3 From January 30, 2020 to January 29 2021				
Resource Category	Level of Expertise	Firm Per Diem Rate		
Application/Software Architect - Specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	LEVEL 3			
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3	***************************************		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************		
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3			
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3			
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************		
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3			
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	***************************************		

Option Period 4 From January 30, 2021 to January 29 2022			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	400000000000000000000000000000000000000	
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3	000000000000000000000000000000000000000	
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3	***************************************	

Option Period 5 From January 30, 2022 to January 29 2023			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3		
Application/Software Architect - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	100011001110011100111001110011	
Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	LEVEL 3	***************************************	
Programmer/Software Developer - Specialty in IBM Business Process Management (BPM) Advanced	LEVEL 3		
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and ODM Advanced (including the Event Management System (EMS))	LEVEL 3	***************************************	
Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	LEVEL 3		
Technology Architect - IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management	LEVEL 3		

ANNEX C SECURITY REQUIREMENTS CHECK LIST

(SEE ATTACHED HERETO)

ANNEX D

Non-Disclosure Agreement

I,, recognize that in the course of my work as an employee or			
subcontractor of, I may be given access to information by or			
on behalf of Canada in connection with the Work, pursuant to Contract No.			
# between Her Majesty the Queen in right of Canada, represented by			
the President of the CBSA and, including any information that is confidential or proprietary to third parties, and information conceived, developed or			
produced by the Contractor as part of the Work. For the purposes of this agreement,			
information includes but not limited to: any documents, instructions, guidelines, data,			
material, advice or any other information whether received orally, in printed form,			
recorded electronically, or otherwise and whether or not labeled as proprietary or			
sensitive, that is disclosed to a person or that a person becomes aware of during the			
performance of the Contract.			
I agree that I will not reproduce copy, use, divulge, release or disclose, in whole or in			
· · · · · · · · · · · · · · · · · · ·			
part, in whatever way or form any information described above to any person other			
than a person employed by Canada on a need to know basis. I undertake to safeguard			
the same and take all necessary and appropriate measures, including those set out in			
any written or oral instructions issued by Canada, to prevent the disclosure of or			
access to such information in contravention of this agreement.			
I also acknowledge that any information provided to the Contractor by or on behalf of			
Canada must be used solely for the purpose of the Contract and must remain the			
property of Canada or a third party, as the case may be.			
I agree that the obligation of this agreement will survive the completion of the Contract			
No. #			
0.			
Signature			
Date			

ASFC - Divulgation en vertu de la loi sur l'Accès à l'info

Annex A - Statement of Work (SOW)

Acquisition of Professional Services for SOAPS-MDMS-ERASS

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1. Introduction

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various key initiatives (e.g. Beyond the Border, Entry-Exit, Biometrics, Generic Passage Flow), and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the CBSA's transformation agenda, ISTB has implemented an enterprise approach to the management of its portfolio of systems, projects and services. The following key steps have been taken to implement this enterprise approach to portfolio management:

- The creation of ISTB Service Portfolio Directorates Corporate, Commercial, Traveler and Common Services;
- The implementation of a Service Life Cycle Management Framework (SLMF) to help align the
 provision of ISTB services with the needs of CBSA. The SLMF is used to integrate the methods,
 processes, roles and responsibilities within ISTB with CBSA's business strategy to deliver value.
 The SLMF establishes a baseline from which ISTB can plan, build, operate, manage and evolve
 services; and
- The alignment and implementation of the following frameworks: Project Management, Project Portfolio and Service Life Cycle Management.

As part of this transformation the Common Services Portfolio has been created with the mandate of leading key projects to deliver various new enterprise building bock capabilities and services for CBSA. These projects include Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS). Together, they will provide enterprise back-end capabilities for Entry-Exit and other key CBSA initiatives.

2. Background

The Common Services Portfolio has a mandate to plan, lead and stand up, in multiple releases, key mission-critical, large-scale, high-volume foundational services to deliver increased horizontal capabilities and services for CBSA. The services to be implemented are Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS).

The delivery of these foundational services will allow CBSA to increase its ability to meet its security obligations and provide both efficient and effective management of its resources in support of risk management and assessment activities.

2.1 SOAPS

SOA will enable reusable, horizontal enterprise services providing modern, robust, and agile IT services. The CBSA SOA services will be realized by integrating a number of Commercial Off-the-Shelf (COTS) products, augmented by custom development for capabilities not readily available in the market.

The SOA platform services will be a cornerstone of CBSA's information technology systems to promote the development of horizontal services within the enterprise, they will enable re-use of common business function.

These platform services will be used by CBSA Lines of business (LOB) initiatives to develop and deploy ITenabled business services. COTS products, ESB IBM Integrated Bus (IIB), IBM Business Process Manager (BPM), IBM Operational Decision Manager (ODM) Standard, and IBM Operational Decision Manager (ODM) Advanced will be used to enable and support the SOA platform services.

2.2 MDMS

MDM will become the authoritative system of record for CBSA's people and business tombstone data and will be critical in enabling a 360 degree view of people and businesses. After the MDM system is put in place, all systems at CBSA will have the ability to integrate with the MDM solution when requiring access to people and business tombstone data.

Stewards responsible for maintaining the MDM data quality will be put in place as part of the initiative and will align to the overall direction for data governance to be provided by the Enterprise Data Governance initiative.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IBM InfoSphere Information server (IIS) product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

The MDMS requires the use of the following architecture components:

- The Master Data Management (MDM)component will provide services to maintain and search
 party information (businesses and people) as well as a user interface to govern the mastered
 data (data stewardship interface).
- The Data Preparation and Loading Service (DPLS) component will provide services to extract, cleanse, standardize, transform and ingest data during initial load as well as ongoing operational processes.

2.3 ERASS

Enterprise Risk Assessment Support Service (ERASS) will build upon the SOA platform to deliver the Entity Resolution and Search Service providing enterprise services in support of the CBSA risk assessment landscape.

Its primary services relate to identity resolution, fuzzy search, and federated search of information related to a specified person across multiple LOB systems. ERASS is dependent on MDMS and SOAPS as a result of service provisioning and utilization amongst them.

ERASS will leverage MDMS for entity resolution, data preparation, and data loading services. ERASS will also require the ESB component within SOAPS to host the public interface and processes that comprise the services offered by ERASS.

Additionally, ERASS could make use of Informatica SSA Name 3 as a component of the Fuzzy Search Service. Relationship resolution is an additional service offered by ERASS which will provide obvious and non-obvious relationship discovery capabilities for ingested entities. The Relationship Resolution Service (RRS) will require IBM's InfoSphere Identity Insight (ISII) COTS software product as an architecture component.

2.4 Travellers - Entry-Exit

Entry-Exit will be the initial on-boarder to the components included in the SOA platform services. Entry-Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program integrity. The key deliverables of the Entry-Exit Project rely on the ability to identify individuals and recognize if they are known or unknown to CBSA.

The delivery of the Entry-Exit project is dependent on the components found in the SOA platform services. Entry-Exit will leverage the SOA and MDM components to deliver the following:

- Calculating duration of complete Entry to Exit Events.
- Calculating duration of complete Exit to Entry Events
- Calculating duration of open Exit Events.
- Calculating duration of open Entry Events.
- Calculating complete events over specified periods of time.
- Reconciliation of data from multiple sources to create an Entry or Exit Event.
- Determination of mode of transportation.
- Enhanced people name searching and matching support;
- Identity resolution for entities that exist in multiple databases;
- Relationship resolution for entities across multiple databases, and;
- Alerting.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IIS product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

3. Objective

The specific objective of this procurement is to acquire the professional services on an as required basis to support the work of CBSA in the establishment and integration of the above mentioned key mission-critical foundational services, i.e. SOAPS, MDMS, and ERASS.

It is expected that the Contractor's resources will be used across CBSA. The resources will be involved in the architecture and design, development, configuration, testing, optimization, integration with other related components and systems, deployment, and support and maintenance of the above mentioned foundational services in a complex technical environment using the Crown-owned suite of commercial off-the-shelf (COTS) products.

4. Scope

The scope of work consists of the acquisition of professional services to provide guidance, expertise, deliverables, and assistance to perform the development, deployment, configuration, integration, and post-implementation maintenance support of the architecture components required for SOAPS, MDMS, and ERASS.

On an as and when requested basis, through the issuance of Task Authorizations (TAs), the Contractor must perform the tasks as described in section 7 below.

To realize this delivery within the time constraints, CBSA foresees a requirement for the assistance of professional services, starting from October 2016 until the end of March 2020, in the following domains: (1) architecture, (2) software development and configuration, (3) system analysis, (4) testing services, (5) business analysis, (6) IT Security, and (7) systems-solutions integration.

CBSA plans to iterate the delivery of the above-mentioned services through phases identified in section 5 below: (1) Planning, (2) Building, (3) Verification, (4) Production, (5) On-Boarding, (6) Maintenance. Each phase will include embedded controls and checkpoints and will require the work of professional services for which categories and tasks are identified below in sections 6 and 7. The resources may be required to perform tasks in any or all of the phases. These services need to be delivered in accordance with CBSA approved methodologies and frameworks.

4.1 Out of Scope - End-User Support

The Contractor will not be required to provide End-User Support following post-implementation of the architecture components required for SOAPS, MDMS, and ERASS.

5. Phases

The work delivery of the above-mentioned services will need to be performed iteratively through phases. Each phase has a set of expected deliverables. Note that there may be some overlap in the timing of the phases such that a later phase may begin before the prior phase has completed. Deliverables may include but are not limited to the following:

- 1. Planning Phase System Requirements Specifications (SRS), Architecture and Design Specification (ADS), System Use Cases (SUC), System Requirements Traceability Matrix (S-RTM), high level architecture, preliminary User Interface (UI) screens, and master test plan;
- 2. Building Phase System components and integration, unit, integration and component test plan, development release notes, ADS, S-RTM, Test to System Requirements Traceability Matrix (TS-RTM), implementation schedule;
- 3. Verification Phase Master test plan (fully defined), functional acceptance plan, verification test plan, verification test report, release notes, defects, build book, component and integration documentation, screen captures and hierarchy, ADS, TS-RTM, production implementation schedule;
- 4. Production Phase SRS, comprehensive traceability matrix, master test plan, test reports, ADS, operations release guide, release notes, Service Level Agreements (SLAs), build book;
- 5. On-boarding Phase client engagement plan, technical qualification and assessment, client readiness and development, integration endorsement and testing, production readiness assessment, implementation schedule, SRS, ADS, SUC;
- 6. Maintenance Phase Maintenance system documentation, maintenance component and integration documentation, maintenance performance verification testing, operations services documentation, monitoring and reporting requirements.

6. Resource Categories

The table below identifies the categories of expert resources that CBSA anticipates requiring on an as and when requested basis.

TBIPS Category	Level of Expertise	Area of expertise		
D	3	Specialty in IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)		
Programmer/Software Developer	3	Specialty in IBM Business Process Management (BPM) Advanced		
Developer	3	Specialty in IBM Operational Decision Manager (ODM) Standar and Advanced (including the Event Management System (EMS)		

Application/Software	3	Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Application/Software Architect	3	Specialty in IBM Business Process Management (BPM) Advanced
Architect	3	Specialty in IBM Operational Decision Manager (ODM) Standard
		and Advanced (including the Event Management System (EMS))
	3	Specialty in Test coordination of one or many of the following
Test Coordinator		Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM
rest coordinator		ISII, IBM IIB-ESB, IBM GNM, IBM Operational Decision Manager
		(ODM) Standard and Advanced
Technology Architect	3	IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
recimology Architect	3	Configuration and Release Management

7. Tasks and Activities

This section describes the categories of expert resources and the basic responsibilities for each that CBSA anticipates will be required to build, integrate, test, and deploy a large-scale integrated SOA, MDM, and ERASS foundation. The Contractor may be required to perform the tasks and produce the deliverables identified, but not limited to, the lists provided below. Each individual Task Authorization (TA) will detail the specific tasks and deliverables to be completed.

7.1 Programmer/Software Developer

The resources identified may be required to participate in any or all phases identified in the Scope section above.

7.1.1 Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on developing rules for the IBM SOA
 Suite Integration Bus platform:
 - Integration of IBM IIB with other IBM SOA suite components (BPM, ODM Standard and Advanced) as well as current and future CBSA information systems;
 - Implementation of Integration solutions using IBM IIB including design, development, testing and deployment of Integration Applications, integration libraries and message flows; and
 - All aspects of testing of solutions developed for the IBM Integration Bus including functional, integration and performance testing.
- Develop best practices and development guidelines;
- Perform performance optimization of Message Flow solutions for IBM Integration Bus;
- Provide best practices and guidelines for component, integration, and performance testing of integration solutions implemented using the IBM IIB;
- Test planning for unit and component testing; and
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Deployable Integration Applications and libraries developed to CBSA Standards and using CBSA development infrastructure:
- Detailed Design documents for all customized code and configurations for IBM IIB ESB related solution components;
- Best practices and guidelines documentation;
- Test Plans;
- IIB-related system use cases and system requirements documents; and
- Developer training material documentation.

7.1.2 Specialty in IBM Business Process Management (BPM) Advanced

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
 - Integration of IBM BPM with other IBM SOA Suite components (IIB, ODM Standard and Advanced) as well as current and future CBSA information systems;
 - o BPM performance optimization
 - Automated business process execution using IBM BPM including process analysis, process authoring, process application development, testing and deployment;
 - Performance optimization and troubleshooting;
- Provide best practices and development guidelines;
- Design and development of business process orchestrations targeted at the IBM SOA suite toolsets using the IBM SOA development toolsets; and
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Deployable business process applications developed to CBSA standards and using CBSA development infrastructure;
- Detailed design documents conforming to CBSA SLMF template requirements; more specifically the required ADS section for business process applications;
- Planning for and analysis of results from unit, component and other related test plans for business process applications;
- Documented guidelines and best practices related to business process development;
- BPM-related system use cases and system requirements; and
- Developer training material documentation.

7.1.3 Specialty in IBM Operational Decision Manager (ODM) standard and ODM Advanced (including the Event Management System (EMS))

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
 - Integration of ODM and ODM Advanced with other IBM SOA suite components (IIB and BPM) as well as current and future CBSA information systems;
 - Automated decision making using ODM Standard including rule development, rule flow development, rule application testing and deployment;
 - Automated triggering of business processes and notifications based on event pattern matching using ODM Advanced including event pattern design and development, event application testing and deployment;
 - o Performance optimization and troubleshooting; and
 - o Provide best practices and development guidelines.
- Planning for and analysis of results from unit, component and other related test plans for business rule applications;
- Assist CBSA with the design and development of:
 - Business Object Models (BOM); and
 - o eXecution Object Models (XOM).
- Development of developer training material.

Deliverables (may include but not limited to the following) -

- Develop deployable business rule applications (including BOMs and XOMs as required) developed to CBSA standards using CBSA development infrastructure and processes.
- Detailed design documents conforming to CBSA SLMF template requirements (specifically the ADS Part 4) for business rule applications;
- Test plans;
- Developer training material documentation;
- Documented guidelines and best practices related to Business and Event Rule Development; and
- BRMS-related System Use Cases and system requirements.

7.2 Application/Software Architect

7.2.1 Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Tasks (may include but not limited to the following) –

- Provide CBSA with expert technical expertise and guidance on the following topics:
 - Architecture that includes integration of IBM IIB with other IBM SOA suite components (BPM, ODM Standard and Advanced) as well as with current and future CBSA information systems;
 - Infrastructure and application architecture supporting high availability and disaster recovery;
 - Architecture best practices and guidelines;
 - IIB-ESB security frameworks and integration with CBSA security policy and identity stores; and

 Guidelines, standards and best practices for when to implement business processes on the IBM Integration Bus versus the IBM Business Process Management System.

Deliverables (may include but not limited to the following) -

- Best practices, guidelines, standards and procedure documentation for items listed in the task list using CBSA approved templates; and
- Architecture & Design documentation using CBSA approved templates.

7.2.2 Specialty in IBM Business Process Management (BPM) Advanced

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
 - Architecture that includes integration of IBM BPM with other IBM SOA Suite components (IIB, ODM Standard and Advanced) as well as current and future CBSA information systems;
 - Infrastructure and application architecture supporting high availability and disaster recovery;
 - Architecture best practices and guidelines;
 - BPM security frameworks and integration with CBSA security policy and identity stores;
 and
 - Guidelines, standards and best practices for when to implement business processes on the IBM Integration Bus versus the IBM Business Process Management (BPM) system.

Deliverables (may include but not limited to the following) -

- Best Practices, Guidelines, standards and procedure documentation for items listed in the task list using CBSA Approved templates; and
- Architecture & Design Documentation using CBSA approved templates.

7.2.3 Specialty in IBM Operational Decision Manager (ODM) standard and ODM Advanced (including the Event Management System (EMS))

Tasks (may include but not limited to the following) -

- Provide CBSA with expert technical expertise and guidance on the following topics:
 - Architecture that includes integration of IBM ODM and ODM Advanced with other IBM SOA Suite components (IIB, BPM) as well as current and future CBSA information systems;
 - Infrastructure and application architecture supporting high availability and disaster recovery;
 - o Architecture best practices and guidelines; and
 - ODM security frameworks and integration with CBSA security policy and identity stores

Deliverables (may include but not limited to the following) -

- Best Practices, Guidelines, standards and procedure documentation for items listed in the task
 list using CBSA Approved templates; and
- Architecture & Design Documentation using CBSA approved templates.

7.3 Test Coordinator

The test coordinator must plan, manage, schedule, coordinate, and control testing activities for multiple integrated systems and products specifically the ones part of the IBM SOA stack. Product specific knowledge is also required as identified below. The resources identified may be required to participate in any or all phases identified in the Scope section above.

7.3.1 Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Tasks (may include but not limited to the following) -

- Provide expertise in all aspects of testing applications developed on IBM SOA stack, including testing of one or many of the following IBM products: ESB flows in IIB, business process automation on IBM BPM, MDM, ISII, IIS, rules and event management in ODM Standard and Advanced;
- Provide advice, guidance for the development of a test strategy, test plans, test scenarios, test
 cases, unit tests including recommendations for the selection of automated testing tools, and
 identification of test environment and resources required for testing;
- Develop, prepare and deliver the following documentation: test strategy, test plans, test scenarios, test cases, and test reports templates
- Plan, organize, schedule, and coordinate testing efforts for large enterprise systems, including:
 - Integration testing with CBSA applications and other components including for example: ESB-IIB, ODM Standard, ODM Advanced, MDM, IIS, BPM Advanced, MQ, and HTTP and HTTPS;
 - User acceptance testing (e.g. stress tests);
 - Verification testing of the test environment and tools
 - Ensure alignment of test plan with System Requirements Traceability Matrix (S-RTM)
 - Detailed time and resource estimates required for testing
- Report on test execution and cycles by ensuring completion of test Reports and reporting of bugs found during testing in the bug management system; and
- Complete the test traceability matrix;

Deliverables (may include but not limited to the following) –

- Test Strategy, test plans, test scenarios, test cases;
- Test schedules, test reports, test logs, test traceability matrix;
- Test checklists;

- Test scripts; and
- Verification implementation plan and schedule.

7.4 Technology Architect

The resources identified may be required to participate in any or all phases identified in the Scope section above.

7.4.1 IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management

Tasks (may include but not limited to the following) –

- Work with Software Configuration Management (SCM) team to provide technical solutions to support SCM processes;
- Conduct consultations with stakeholders aimed at firming up and documenting the required infrastructure design integrating IBM IIB and IBM ESB with cross-platform underpinning technologies;
- Implement and maintain SCM tools pertaining to IBM SOA products (IIB, BPM Advanced, ODM, ODM Advanced);
- Perform defect troubleshooting and root-cause analysis;
- Develop, implement and maintain automated build and deployment scripts;
- Install and configure applications in development and QA environments;
- Provide technical solutions for general SCM tasks such as change control, status accounting and auditing;
- Integration with ESB-IIB, MDM, ODM, ODM Advanced, BPM, ISII, MQ, HTTP, and HTTPS; and
- Provide training and support to end users of SCM tools.

Deliverables (may include but not limited to the following) -

- Installation and Configuration recommendations for the deployment of the IBM IIB ESB and the customized code and configuration solution components for CBSA related infrastructure;
- Installation and configuration recommendations for the integration of ESB-IIB, MDM, ODM, ODM Advanced, and BPM;
- Capacity management plan and strategy;
- Availability, fail-over and recoverability strategies;
- Test cases, test plans and scripts as required;
- Operations guide(s) as required; and
- Other written deployment and implementation strategies as required.

8. Constraints

Professional resources procured through this vehicle will be expected to adhere to the CBSA operating model, following CBSA standards and processes to accomplish their project work. The Contractor's resources will be required to abide by architectural design documents which have been developed and approved prior to the commencement of their services such as Release Proposal, Architecture Design Specification, and System Use Cases. CBSA will provide copies of all templates and policies applicable after contract award.

The professional services resources will be integrated into and collaborating with various CBSA responsibility centers working alongside CBSA employees and other professional contracted resources of varying disciplinary backgrounds.

Knowledge transfer, application code developed for CBSA, and documentation as necessary is expected from all professional resources hired through this vehicle and is required to ensure that CBSA personnel have the knowledge and mechanisms to independently support and sustain the infrastructure deployed through this contract.

Both software and hardware specifications identified in Section 12.2 and 12.3 respectively are provided for information purposes only and may be subject to change. Additional hardware and software components will be included in the applicable Task Authorizations.

Each Task Authorization will identify any additional constraints if applicable.

9. Client Support

CBSA will ensure that the Contractor's resource is provided with:

- · Security access to the building; and
- Access to relevant project documentation; and
- Workspace and CBSA equipment.

10. Work Location

The specific work location will be identified in each Task Authorization. Unless specified otherwise, the work location will be a CBSA office in the National Capital Region (NCR).

11. Language Requirement

The resources must be able to perform the work and provide any deliverables in English. Each Task Authorization will identify the specific language requirements.

12. Technical Environment

The Canada Revenue Agency (CRA) and Shared Services Canada (SSC) currently provide infrastructure services to CBSA.

12.1 CBSA High-Availability (HA) Environment

Critical CBSA business applications require 24-7 availability and dual data center failover. As such, the computing environment including both infrastructure and software applications must be well integrated in ensuring critical CBSA systems are available at all time. This requires an application ability to mask both scheduled and un-scheduled outages. If required, CBSA standard Relational Database Management Systems (RDBMS) are available to store, report and retrieve enterprise authorized data on the CBSA enterprise platforms as defined by the CBSA technical platform document.

The integration of software applications in a highly available environment, paramount to support the model for the SOAPS, may include, but is not limited to, the following technologies:

- Clustered or redundant Web technologies: WebSphere, and Apache.
- Clustered or redundant DBRMS: DB2 with PureScale.
- Redundant LDAP, SiteMinder, and Identity Manager.
- Load balancer technologies using Apache servers and network appliances.
- Cognos SPSS
- SSA-Name3

12.2 Software Components

CBSA owns all licenses to use the IBM products found in the table below:

Architecture Component	сотѕ	Version and Platform	DB and Platform	Description
Master Data Management (MDM)	IBM Master Data Management (MDM)	11.5 on Linux	DB2 on Linux	MDM provides maintenance and search capabilities for mastered businesses and people
Global Name Management (GNM)	IBM Global Name Management (GNM)	5.0 or above	N.A.	Name structure recognition with cultural backgrounds.
Data Preparation and Loading Service (DPLS)	IBM DataStage (DS) and QualityStage (QS)	IIS 11.5	DB2 on Linux	DS and QS extract data from data sources, cleanses, standardizes and loads it into the target database
Business Process Management (BPM)	IBM Business Process Management (BPM) Advanced	8.5.6 or above on Linux	DB2 on Linux	BPM provides business process automation.

Enterprise Service Bus (ESB)	IBM IIB	10 or above	DB2 on Linux	IBM Integration Bus connects applications together. It routes, transforms, and enriches messages from one location to any other location.
Business Rules Management Service (BRMS) and Event Management Service (EMS)	IBM ODM Advanced IBM ODM Standard	8.7 or above	DB2 on Linux	ODM manages the business decision logic that is used by operational systems
Relationship Resolution Service (RRS)	IBM InfoSphere Identity Insight (ISII)	8.1.0 or above	DB2 on Linux	IBM InfoSphere Identity Insight resolves inconsistent, ambiguous identity records into comprehensive entities across multiple data sets
IBM SOA Integrated Development tools	IBM integration Designer, IBM Integration Explorer, IBM Business Process Designer, IBM ODM Rule Designer, IBM ODM Decision Server Event Designer	Various	DB2 on Linux	Set of tool to support the development and implementation of an integrated SOA, MDM, and ERASS foundation.

12.3 Hardware specification

The following table provides the hardware specifications in anticipation of the integrated SOA, MDM, and ERASS foundation implementation and delivery:

Component	Hardware	Specifications	Units
	Server specification	Xeon ES-2650 2x8 with 70 PVU score	
		Blade (Without VM)	36
	Servers	Blade (With VM)	30
MDM	Chassis		6
	SAN Storage	Primary Disk capacity (Gb)	15862.50 (gb)
		Mirrored capacity (Gb)	15862.50 (gb)
		SAN ports	
SOA	Servers	Blade 32 cores	8.5625
	Chassis		4

Appendix A - Non-Functional Requirements

Volumetric – expected peak number of transactions per second

The following table illustrates the expected volumes (peak number of transactions per second) that are associated with the functioning services:

Component		Year				
	Service	2016	2017	2018	2019	2020
SOA	ESB	36.54	76.37	77.89	79.45	81.04
	BPM	19.21	19.60	19.99	20.39	20.80
	BRMS	27.35	66.99	68.33	69.70	71.09
	EMS	0.42	0.81	0.83	0.85	0.86
ERASS	ERSS	35.76	36.52	37.30	38.10	38.92

Volumetric - Volumes

Component	COTS	Demand Unit	Release 1	Release 2
NADNA.	IDA A B ADB A	Created businesses during initial load	6,000,000	N.A.
MDM	IBM MDM	Peak transactions per second	27	49
	IBM DataStage	Peak transactions per second	27	49
DPLS	IBM QualityStage or AVI	Transactions per second	27	49

Volumetric - ID resolution and reconciliation RP

Reconciliation and identity resolution is tightly aligned with Master Data Management (MDM) services for initial load, and coupled with query functionality for ongoing operations.

- Created people during initial load 63,000,000
- Created new people in 5 years after release 50,000,000

Availability

- The SOA enablement solution system must be highly available for 24-7 service with planned outages of 2 hours per month or 99.9+% operational ability.
- ERASS must be highly available for 24-7 service with 99.5% operational ability.
- MDM must be available 24 hours per day, 7 days per week, and 365 days per year.

Appendix B – Acronyms

Acronym	Description
ADS	Architecture and Design Specification
BI	Business Intelligence
BPMN	Business Process Modeling Notation
BUC	Business Use Cases
CBSA	Canada Border Services Agency
COTS	Custom Off The Shelf
CRA	Canada Revenue Agency
DPLS	Data Preparation and Loading Service
EDW	Enterprise Data Warehouse
EFSS	Entity Fuzzy Search Service
ERASS	Enterprise Risk Assessment Support Services
ERSS	Entity Resolution and Search Service
ESB	Enterprise Service Bus
ETL	Extract, Transform, and Load
GNM	Global Name Management
GoC	Government of Canada
GC SOA	Government of Canada Service Oriented Architecture
HA	High Availability
IIB	IBM Integration Bus
IIS	InfoSphere Information Server
ISII	InfoSphere Identity Insight
ISTB	Information, Science and Technology Branch
KPI	Key Performance Indicator
LDAP	Lightweight Directory Access Protocol
LOB	Line of Business
MDM	Master Data Management
MDMS	Master Data Management Services
NCR	National Capital Region
ODM	Operational Decision Management
pME	probabilistic Matching Engine
RDBMS	Relational Database Management System
REST	Representational State Transfer
ROI	Return on Investment
RP	Release Proposal
RRS	Relationship Resolution Service
SAN	Storage Area Network
SCM	Software Configuration Management
SLA	Service Level Agreement
SME	Subject Matter Expert
SOA	Service Oriented Architecture
SOAP	Simple Object Access Protocol
SOAPS	Service Oriented Architecture Platform Services
SRS	System requirements specification

S-RTM	System Requirements Traceability Matrix
SUC	System Use Cases
SSC	Shared Services Canada
TA	Task Authorization
TS-RTM	Test to System Requirements Traceability Matrix
UML	Unified Modeling Language

Appendix C – Glossary

Acronym or	Description
Term	
ADS	An Architecture and Design Specification (ADS) document contains architecture and
	design information. The Architecture definition is contained in Parts 1 and 2; and the
	Design is captured in Parts 3 and 4.
BPM	Business process management (BPM) is a discipline that uses various methods to
	discover, model, analyze, measure, improve, and optimize business processes. A business
	process coordinates the behavior of people, systems, information, and things to produce
	business outcomes in support of a business strategy.
Deployment	Deployment services support the implementation and rollout of new applications or
	infrastructure. Activities may include hardware or software procurement, configuration,
	tuning, staging, installation and interoperability testing.
ETL	ETL is short for extract, transform, and load, three database functions that are combined
	into one tool to pull data out of one database and place it into another database.
	 Extract is the process of reading data from a database.
	 Transform is the process of converting the extracted data from its previous form
	into the form it needs to be in so that it can be placed into another database.
	Transformation occurs by using rules or lookup tables or by combining the data
	with other data.
	 Load is the process of writing the data into the target database.
Implementation	A term used to designate the phases of the system lifecycle that are responsible for the
	delivery of an information system. It includes the initiation, development and acquisition,
	and integration and installation phases of the system lifecycle, but excludes the
	operations and maintenance phase and the disposal phase.
Master Data	Master data management (MDM) of product data solutions are software products that:
Management	 Support the global identification, linking and synchronization of product
	information across
	 heterogeneous data sources through semantic reconciliation of master data
	 Create and manage a central, persisted system of record or index of record for
	master data
	 Enable delivery of a single product view to all stakeholders, in support of various
	business benefits
	Support ongoing master data stewardship and governance requirements through
	workflow-based
	 monitoring and corrective action techniques
Project	Project implementation or execution is directing, managing, performing and
implementation	accomplishing the project work, providing the deliverables, and providing work
	performance information.
Relationship	A system that provides services to analyze identities and their relationship for the
analytical tool	purpose of fraud detection and risk assessment.
SOA	SOA is an approach for developing enterprise information systems solutions based on
	services. SOA is an industry best practice, which promotes open architecture. SOA aims to
	align information system services with business processes and data to enable re-use of

	business level functions. SOA is a foundation architecture that will influence systems development across the Agency's line of business portfolios.
GC SOA	The GC Service Oriented Architecture (GC SOA) is a comprehensive reference model that guides the use and adoption of Service Oriented Architectures (SOA) across the Government of Canada.
System integration	It ensures that the various segments and elements of the total system can interface with each other and with the external environment. [Thayer & Thayer European Perspective 1993]

Appendix D - Tasking Assessment Procedure

- Where a requirement for a specific task is identified, a draft Task Authorization Form (TA Form) as attached at Appendix E to Annex A will be provided to the Contractor in accordance with the allocation methodology stated in the Contract Article titled "Allocation of Task Authorizations". Once a draft TA Form is received, the Contractor must submit to the Technical Authority a quotation of rates to supply the requested Resource Categories based on the information identified in the TA Form. The quotation must be signed and submitted to Canada within the time for response identified in the TA Form. The Contractor will be given a minimum of 3 working days turnaround time to submit a quotation.
- 2. For each proposed resource the Contractor must supply a résumé, the requested security clearance information and must complete the Response Tables at Appendix F of Annex A applicable to the Resource Categories identified in the draft TA. The same individual must not be proposed for more than one Resource Category. The résumés must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to the proposed resources:
 - (i) Proposed resources may be employees of the Contractor or employees of a subcontractor, or these individuals may be independent contractors to whom the Contractor would subcontract a portion of the Work. (Refer to Appendix G to Annex A, Certifications).
 - (ii) For educational requirements for a particular degree, designation or certificate, Canada will only consider educational programmes that were successfully completed by the resource before the date the draft TA was first issued to the Contractor.
 - (iii) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of draft TA issuance and must continue, where applicable, to be a member in good standing of the profession or membership throughout the assessment period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this Contract or if the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued.
 - (iv) For work experience, Canada will not consider experience gained as part of an educational programme, except for experience gained through a formal co-operative programme at a post-secondary institution.
 - (v) For any requirements that specify a particular time period (e.g., 2 years) of work experience, Canada will disregard any information about experience if the résumé does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). Canada will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
 - (vi) A résumé must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. Only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the requirement, or reusing the same wording as the TA Form, will not be considered "demonstrated" for the purposes of the assessment. The Contractor should provide complete details as to where, when, month and year, and how, through which activities or responsibilities, the stated qualifications and experience were obtained. In situations in which a proposed resource worked at the same time on more than one

project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.

- 3. The qualifications and experience of the proposed resources will be assessed against the requirements set out in Appendix F to Annex A to determine each proposed resource's compliance with the mandatory and rated criteria. Canada may request proof of successful completion of formal training, as well as reference information. Canada may conduct reference checks to verify the accuracy of the information provided. If reference checks are done, they will be conducted in writing by e-mail (unless the contact at the reference is only available by telephone). Canada will not assess any points or consider a mandatory criterion met unless the response is received within 5 working days. On the third working day after sending out the emails, if Canada has not received a response, Canada will notify the Contractor by e-mail, to allow the Contractor to contact its reference directly to ensure that it responds to Canada within 5 working days. Wherever information provided by a reference differs from the information supplied by the Contractor, the information supplied by the reference will be the information assessed. Points will not be allocated or a mandatory criteria considered as met if the reference customer is not a customer of the Contractor itself (for example, the customer cannot be the customer of an affiliate of the Contractor). Nor will points be allocated or a mandatory criteria considered as met if the customer is itself an affiliate or other entity that does not deal at arm's length with the Contractor. Crown references will be accepted.
- 4. During the assessment of the resources proposed, should the references for two or more resources required under that TA either be unavailable or fail to substantiate the required qualifications of the proposed resources to perform the required services, the Contracting Authority may find the quotation to be non-responsive.
- Only quotations that meet all of the mandatory criteria will be considered for assessment of the point rated criteria. Each resource proposed must attain the required minimum score for the point rated criteria for the applicable Resource Category. If the minimum score for any proposed resource is less than what is required, the Contractor's quotation will be found to be non-responsive.
- 6. Once the quotation has been accepted by the Technical Authority, the TA Form will be signed by Canada and provided to the Contractor for signature. The TA Form must be appropriately signed by Canada prior to commencement of any work. The Contractor must not commence work until a validly issued TA Form (the Task Authorization) has been received, and any work performed in its absence is done at the Contractor's own risk.

Appendix E – Task Authorization Form

(SEE ATTACHED HERETO)

Appendix F – Resources Assessment Criteria and Response Table

(SEE ATTACHED HERETO)

Appendix G – Certifications at the TA Stage

The following Certifications are to be used, as applicable. If they apply, they must be signed and attached to the Contractor's quotation when it is submitted to Canada.

1.	CERTIFICATION OF EDUCATION AND B	EXPERIENCE	
propos achiev Furthe	ontractor certifies that all the information prosed for completing the subject work, particul ements, experience and work history, has bermore, the Contractor warrants that every inable of performing the Work described in the	arly the information een verified by the dividual proposed	on pertaining to education, e Contractor to be true and accurate. If by the Contractor for the requirement
Drint r	one of outberized individual 9 sign obeyon	- <u></u>	at a
F1111L1	ame of authorized individual & sign above	De	ate
2.	CERTIFICATION OF AVAILABILITY OF F	PERSONNEL	
the pe reasor	ontractor certifies that, should it be authorized rsons proposed in the quotation will be avaicable time from the date of issuance of the was Form, and will remain available to perform	able to commenc alid Task Authoriz	e performance of the work within a zation, or within the time specified in
Print r	ame of authorized individual & sign above	 Da	ate
3.	CERTIFICATION OF STATUS OF PERSO	ONNEL	
certifie be per Perioc signed Failure	Contractor has proposed any individual who as that it has permission from that individual formed under this TA and to submit his or has the Contractor must, upon request from the by the individual, of the permission that was to comply with the request may result in a al Conditions.	to propose his or er résumé to Can e Contracting Auth s given to the Cor	her services in relation to the Work to ada. At any time during the Contract ority, provide the written confirmation, atractor of his or her availability.
Print r	ame of authorized individual & sign above	. <u> </u>	ate
4.	CERTIFICATION OF LANGUAGE - ENGI	-ISH	
are flu	ontractor certifies that the proposed resource ent in English. The individual(s) proposed m h without any assistance and with minimal e	ust be able to cor	o this draft Task Authorization is or nmunicate orally and in writing in
Print r	ame of authorized individual & sign above	 Da	ate

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)								
A. General Information / Informations générales								
Contract Number / Numéro du contrat :								
Contractor Name / Nom du Contracteur :								
Task Authorization (TA) No. / N° Commitment N· de l'autorisation de tâches (AT) : l'engagement :		nancial Coding / Code nancier :	Date of Issuance / Date of Issua	ate Response required by / Réponse requise par :				
B. For Amendments Only / Aux fins de modif	ication seule	<u>ment</u>						
Amendment No. / N° de la modification :								
Reason for the Amendment / Raison pour la modific	ation :							
C. TA Requirements / Exigences relatives à l'A	AT							
Required Resource(s) / Ressource(s) requise(s)								
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis				
				+				
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)	Luciania				
Period of Services / Période de service:								
Initial Start Date / Date de début initiale :		Initial End Da	te / Date de fin initiale :					
Extented End Date (See Reason for the Amendment)	/ Date de fin pr	olongée (voir Raison p	our la modification) :					
Doption To Extend Initial End Date / Option pour p	orolonger la dat	te de fin initiale						
Travel Requirement(s) / Exigence(s) de voyage :								
Work Location(s) / Lieu(x) de travail :								
PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)								
A Contractor Resource(s) / Ressource(s) du C	ontracteur							

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Travaux publics et Services gouvernementaux Canada

de la personne autorisée à signer au nom de l'entrepreneur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Cate	gory / Catégoi	rie	Level / Niveau		istic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
										+
B. Estimated Cost / Coût est	timatif									
Category / Catégori	e	Level / Niveau		m Rate / I urnalier	āux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
+										
					E	stimated Cos	t / Coût estimatif			
	Total	Estimated Trav	vel and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de tax	es appliquées				Applic	able Taxes / T	axes applicables		\$0.00	
				Tota	al Estima	nted Cost / Co	ût total estimatif		\$0.00	
PART 3 - TA APPROVAL	. BY CANA	DA / PART	TIE 3 - AP	PROB <i>A</i>	TION	DE L'AT P	AR LE CANA	ADA		
By signing this TA, the authorized client a certify(ies) that the content of this TA is in							le client autorisé et/o e AT est conforme au:		ntractante de TPSGC u contrat.	
The client's authorization limit is \$300,000 (including GST/HST) is in excess of this lim forwarded to the PWGSC Contracting Aut	nit, the TA must be	signed by the autl		nd (inclua	nt la TPS/I		e limite, l'AT doit être		le l'AT et ses modificatio client autorisé et transi	
Name of Authorized Client / Nom du cli	ent autorisé D	ate			of Contrac ité contrac	ting Authority / N tante	lom de	Date		
Signature				Signat	ure					
PART 4 - CONTRACTOR	SIGNATU	RE / PART	IE 4 - SIG	NATUI	RE DU	CONTRAC	TEUR			
Name and Title of individual authorized	I to sign on hehalf	of the Contractor /	/ Nom et titre	Sign	ature			Date		

Appendix F to Annex A

Resources Assessment Criteria and Response Tables

To facilitate resource assessment, the Contractor must prepare and submit a response to a draft Task Authorization using the tables provided in this Appendix. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that the assessor can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

1.0 Mandatory Resource Assessment Criteria

The experience required for a Mandatory Resource Requirement must be demonstrated through one or multiple referenced projects and each referenced project must have a minimum duration of three (3) months in order to be accepted.

1.11 Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer –

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 				
	 Correct program errors by revising instructions or altering the sequence of operations. 				
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 				

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Integration BUS (IIB) – Enterprise Service Bus (ESB) has:

Criteria	Mandatory Requirement	Bidder's re)	
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).			
	*Or previous versions or instances.			

1.12 Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	 Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results. 				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 				
	 Correct program errors by revising instructions or altering the sequence of operations. 				
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 				

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Pidder MUST demonstrate that the Proposed Programmer/Software Developer

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Business Process Management (BPM)* solutions, aligned with a Service Oriented Architecture (SOA), on large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances.					

1.13 Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

	Expertise of the Proposed Programmer/Software Developer – Specialty nal Decision Manager (ODM) Standard and Advanced
Name of propos	sed Resource:
1	ST demonstrate that the Proposed Programmer/Software Developer – I Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.				
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.				
 Verify a programs testing acceptan personne Correct instructio 	programs by preparing sample data, and				
	 Correct program errors by revising instructions or altering the sequence of operations. 				
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 				

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Operational Decision Management (ODM)* solutions including the creation of executable object models (XOM), business object models (BOM), and the authoring of rules for a rules engine**, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances. **includes separate Business rules and Business events components prior to creation of IBM Operational Decision Management (ODM) (Advanced).			

1.14 Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all aspects of technology solutions.			
	Monitor industry trends to ensure that solutions fit with government and industry directions for technology.			
	Analyse functional requirements to identify information, procedures and decision flows.			
	 Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary. 			
	Define and document interfaces of manual to automated operations within application sub-systems, to external systems and between new and existing systems.			
	Define input and output sources, including detailed plan for technical design phase, and obtain approval of the system proposal.			
	 Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc. 			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)					
Name of p	proposed Resource:				
	er MUST demonstrate that the Proposed Application egration Bus (IIB) – Enterprise Service Bus (ESB)		itect – S	pecialty	
Criteria	Mandatory Requirement	Bidder's	respor	ise	
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).				

*Or previous versions or instances.

1.15 Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect: Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements. Identify the policies and requirements that drive out a particular solution. Analyse and evaluate alternative technology solutions to meet business problems. Ensures the integration of all or key aspects of technology solutions. Monitor industry trends to ensure that solutions fit with government and industry directions for technology. Analyse functional requirements to identify information, procedures and decision flows. Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary. Define and document interfaces of manual		Met	Not Met
	structure, and application sub-systems, and develop data dictionary.			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced	
Name of proposed Resource:	

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Business Process Management (BPM)* Advanced large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances.			

1.16 Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	riteria Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	 Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements. 			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all aspects of technology solutions.			
	 Monitor industry trends to ensure that solutions fit with government and industry directions for technology. 			
	Analyse functional requirements to identify information, procedures and decision flows.			
	 Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary. 			
	 Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems. 			
	Define input and output sources, including detailed plan for technical design phase, and obtain approval of the system proposal.			
	 Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc. 			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Operational Decision Manager (ODM)*, large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).			
	*Or previous versions or instances.			

1.17 Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products						
Name of proposed Resource:						
The Bidd products	er MUST demonstrate that the Proposed Te has:	est Coordinator – Spe	ecialty in	n IBM		
Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a test coordinator:					
	Develop and provide advice, guidance and coordination efforts for test strategies and plans, selection of automated testing tools, and identification of resources required for testing.					
	 Plan, organize, schedule, and report on testing efforts for large systems including the execution of systems integration tests, specialized tests, and user acceptance testing (e.g., stress tests). 					
M.2	A minimum of two (2) years of experience, working as a test coordinator, within the last ten (10) years, planning, scheduling, coordinating and reporting on the testing phase of a large scale (project value of \$6 million or greater) IBM Master Data Management (MDM)* solution and/or an IBM Enterprise Service Bus (ESB)* solution implementation at an enterprise level with multiple stakeholders (greater than 2) and multiple integration points.					

*Or previous versions or instances.

1.18 Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management

Experience and Expertise of the Proposed Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration and Release Management has:

Criteria	iteria Mandatory Requirement Bidder's resp		esponse	oonse	
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a technology architect:				
	 Prepare implementation plans and strategy in preparation of solutions' deployments 				
	Develop, implement and maintain automated build and load deployment scripts				
	Maintain and support project source repository				
	 Configure and optimize technical installations including the integration of technical components. 				
	Ensure alignment of releases in both development and testing environments.				
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a technology architect on the configuration, optimization and deployment of an IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* project solution implementation, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

2.0 Point-Rated Resource Assessment Criteria:

The experience required for a Mandatory Resource Requirement should be demonstrated through one or multiple referenced projects and each referenced project should have a minimum duration of three (3) months in order to be accepted.

(See next page)

Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) -**Enterprise Service Bus (ESB)**

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has: BIDDER'S RESPONSE

			BIDDER 3 RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances.	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* component that required an integration with one or more of the following products: • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management (MDM)* • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)* Advanced	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with an ESB component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 		
	Maximum available points	35			
•	Minimum points required	21			

2.12 Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as programmer/software developer developing IBM Business Process Management (BPM)* solutions, aligned with a Service Oriented Architecture (SOA), on large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Business Process Manager (BPM) Advanced has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS Max	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects with a IBM Business Process Management (BPM)* component with integration of one or more of the following products: • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* • IBM Master Data Management(MDM)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a BPM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		
	Minimum points required	21		

2.13 Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Operational Decision Management (ODM)* solutions including the creation of executable object models (XOM), business object models (BOM), and the authoring of rules for a rules engine**, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances. **Includes separate Business rules and Business events components prior to creation of IBM ODM (Advanced).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Special	Ity in
IBM Operational Decision Manager (ODM) Standard and Advanced	

Name o	fpro	posed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects with an IBM Operational Decision Management (ODM)* component with integration of one or more of the following products: • IBM Business Process Management (BPM)* • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* • IBM Master Data Management (MDM)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
R.3	Experience, within the last five (5) years, working as a programmer/software developer on projects with an IBM Operational Decision Management (ODM)* component with volumes equal to or exceeding 10 million transactions per year. *Or previous versions or instances.	5	 10 million to 12 million transactions = 1 point 12+ million to 14 million transactions = 3 points 14+ million transactions per year = 5 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a rule engine component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	40		
	Minimum points required	24		

2.14 Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect –	

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience, as an application/software architect, within the last ten (10) years, on the design, prototyping, components integration and oversight, as part of an IBM Integration Bus (IIB)* – Enterprise Service Bus (ESB) large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	
	*Or previous versions or instances.			

, .	ise of the Proposed Application/Software Architect – Specialty in IBM Enterprise Service Bus (ESB)
Name of proposed Re	esource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM IIB-ESB* with one or more of the following products: IBM Operational Decision Manager (ODM)* Standard or Advanced IBM InfoSphere Identity Insight (ISII)* IBM Master Data Management (MDM)* IBM Business Process Management (BPM)* Advanced	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	*Or previous versions or instances.			

Experience	and	Expertise of	of the	Proposed	Application	/Software	Architect -	Specialty in II	ВМ
Integration	Bus	(IIB) – Ente	rprise	Service B	Bus (ESB)				

Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.3	Experience, as an application/software architect, within the last ten (10) years, in the development of security requirements* of an IBM IIB-ESB* implementation that required integration with one or more of the following COTS: • Master Data Management (MDM)** • IBM Business Process Management (BPM)** Advanced • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage *Security requirements include the integration of MDM with other products part of a solution and alignment with security frameworks, security policies, and guidelines.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	**Or previous versions or instances.			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in Integration Bus (IIB) – Enterprise Service Bus (ESB)	IBM
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with an ESB component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.15 Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Business Process Management (BPM)* Advanced large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
Business Process Manager (BPM) Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience as an application/software architect, within the last ten (10) years, performing the integration of IBM Business Process Management (BPM)* with one or more of the following IBM products: IBM Master Data Management(MDM)* IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)* *Or previous versions or instances.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM	
Business Process Manager (BPM) Advanced	

Name o	fpro	posed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.3	Experience, within the last ten (10) years, as an application/software architect in the development of security requirements* of an IBM Business Process Management (BPM) implementation that required an integration with one or more of the following COTS: • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Master Data Management(MDM)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage *Security requirements include the integration of BPM with other products part of a solution and alignment with security frameworks, security policies, and guidelines. **Or previous versions or instances.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 		

- 1	xperience and Expertise of the Proposed Application/Software Architect – Specialty in IBM usiness Process Manager (BPM) Advanced
	Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Business Process Manager (BPM) Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on a project(s) with a BPM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.16 Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Application/Software Architect –
Specialty in IRM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Operational Decision Manager (ODM)*, large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 		

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RES	RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE #	
R.2	Experience, within the last ten (10) years, working as an application/software architect on the integration of IBM Operational Decision Manager (ODM)* with one or more of the following IBM products listed below on a large scale project (project value of \$6 million or greater) solution implementation at an enterprise level with multiple stakeholders (greater than 2). IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)* IBM Business Process Management (BPM)* Advanced IBM InfoSphere Information Server (IIS) DataStage or QualityStage	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 		

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
Operational Decision Manager (ODM) Standard and Advanced

Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.3	Experience, within the last ten (10) years, as an application/software architect in the development of security requirements* of a solution implementation that required integration with one or more of the following COTS: • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Master Data Management(MDM)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of IBM Operational Decision Manager (ODM) Standard or Advanced with other products part of a solution and alignment with security frameworks, security policies, and guidelines. **Or previous versions or instances.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Operational Decision Manager (ODM) Standard and Advanced has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with a rule engine for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.17 Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM BPM, IBM IIS DataStage and QualityStage, IBM IIB-ESB, IBM ODM Standard and Advanced

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM products has:	

			BIDDER'S RESPONSE		
#	RATED CRITERIA #		DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.1	In addition to M2, experience, working as a test coordinator, within the last ten (10) years, planning, scheduling, coordinating and reporting on the testing phase of a large scale (project value of \$6 million or greater) IBM Master Data Management (MDM)* solution and/or an IBM Enterprise Service Bus (ESB)* solution implementation at an enterprise level with multiple stakeholders (greater than 2) and multiple integration points.	15	 2+ to 3 years = 5 points 3+ to 4 years = 10 points 4+ years = 15 points 		
	*Or previous versions or instances.	***************************************			

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM products has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	experience, within the last ten (10) years, working as a test coordinator to plan, schedule, and report on the functional and system integration testing of solutions that integrates at least two (2) of the following IBM components: • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Master Data Management (MDM)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)** Advanced	15	 2 to 3 years = 5 points 3+ to 4 years = 10 points 4+ years = 15 points 	
	*Or previous versions or instances.			

Experience and Expertise of the Proposed Test Coordinator – Specialty in IBM products	_
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Test Coordinator – Specialty in IBM	

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.3	Experience, within the last ten (10) years, working as a test coordinator on projects that required the integration and testing of components aligned with a SOA and/or MDM for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 		
	Maximum available points	35			
	Minimum points required	21			

2.18 Technology Architect – Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management

Experience and Expertise of the Proposed Tecl Integration Bus (IIB) – Enterprise Service Bus (
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Propo	osed Technology Architect - Specialty in IBM ESB) Configuration/Release Management has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
₹.1	Experience within the last ten (10) years working as a technology architect working on the configuration, optimization and deployment of an IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)* project solution implementation, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3 to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 		

Experience and Expertise of the Proposed Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Technology Architect - Specialty in IBM Integration Bus (IIB) – Enterprise Service Bus (ESB) Configuration/Release Management has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.2	Experience, within the last ten (10) years, as a technology architect performing the integration of IBM Integration Bus (IIB) - IBM Enterprise Service Bus (ESB)* with the IBM Business Process Management (BPM)* Advanced IBM product and one or more of the following IBM products: • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management(MDM)* • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 		
R.3	Experience, within the last ten (10) years, working as a technology architect on projects with an MDM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 		
	Maximum available points	35			
	Minimum points required	21			



Government Gouvernement du Canada

Co	ntract Number / Numéro du	contrat
	1000322116/	47060-152116
Security	Classification / Classification	n de Sécurité

SECURITY REQUIREMENTS CHECK LIST (SRCL)

PART A - CONTRACT INFORMATION / P	VERIFICATION DESIGNATION	UGENCES KELATI	VES A LA SE	CURITÉ (LVERS)	
 Originating Government Department or C 	Organization /		2. Branch d	or Directorate / Direction géné	rale ou Direction
Ministère ou organisme gouvernemental			EAIM/C		
 a) Subcontract Number / Numéro du con 	trat de sous-traitance	3. b) Name and Add	tress of Subcon	ifractor / Nom et adresse du s	ous-traitant
4. Brief Description of Work / Brève descrip	tion du travail				
Standing offer for the provision of Task Base:		cas to the Government of	Canada		
ustanni untro de M arat, neel in et under het in voor en enterpropriet in en voor en vane mo					
20 to 10 to					
5. a) Will the supplier require access to Cor	strolled Goods?				V No TY
Le fournisseur aura-t-il accès à des m					Non L
5, b) Will the supplier require access to unc	lassified military technical o	ata subject to the prov	risions of the Te	chnical Data Control	[Z] № [T] X
Regulations? Le fournisseur aura-t-il accès à des do	andas tachalauna miilaira	nnn elaccifiáne nui er	ant acculations	uv dienneitione du Ràglaman	I NOH L
sur le contrôle des données lechnique		rani opsancca que so	nn accapanica a	an dispositions an irregionion	•
Indicate the type of access required / Inc	liquer le type d'accès requi	3			
6. a) Will the supplier and its employees re-	quire access to PROTECTE	D and/or CLASSIFIED) information or	assets?	No 7 Y
Le foumisseur ainsi que les employés	auront-ils accès à des rens	eignements ou à des f	biens PROTÉG	ÉS et/ou CLASSIFIÉS?	L Non ✓ C
(Specify the level of access using the	chart in Question 7, c)				
(Préciser le niveau d'accès en utilisan 6. b) Will the supplier and its employees (e.	t le tableau qui se trouve a	a guestion 7, c) arsonnal) ramira acce	ess to restricted	access areas? No access to	[7] No [] Y
PROTECTED and/or CLASSIFIED inf	ormation or assets is permi	tted.		•	✓ Non L C
Le foumisseur et ses employés (p. ex	, nettoyeurs, personnel d'er	itretien) auront-ils accè		d'accès restreintes? L'accès	
à des renseignements ou à des biens			ė		[Z] No [T] Y
 c) Is this a commercial courier or delivery S'agit-il d'un contrat de messagerie or 	y requirement with no overr : de liuraison commerciale :	igni storage r :ans entrenosane de r	mit?		V No Y
				war and the Commission of the Control	transport of the second
7, a) Indicate the type of information that th		and the second second	уре о вноглавс		· · · · · · · · · · · · · · · · · · ·
Canada ✓	NA NA	TO/OTAN		Foreign / Étrange	
7. b) Release restrictions / Restrictions rela					
No release restrictions	All NATO count			No release restrictions Aucune restriction relative	
Aucune restriction relative à la diffusion	Tous les pays o	ALCING []		à la diffusion	L
a ia uniusiwi					
Not releasable					
À ne pas diffuser		· ·			· parameter
Restricted to: / Limité à :	Restricted to: /	Limité à :		Restricted to: / Limité à :	
Specify country(ies): / Préciser le(s) pays	Specify country	(ies): / Préciser le(s) p	avs :	Specify country(ies): / Préci	ser le(s) pavs :
Specify country(les), a Frecisca le(s) pays	. Openy wanty	(163). / / 160/06/ 16(4) P	, .	~,~,~,	
7. c) Level of information / Niveau d'informa PROTECTED A 「フー	I NATO UNCLAS	SIFIED Γ		PROTECTED A	
PROTÈGÉA 🔲	NATO NON CL	**************************************		PROTÉGÉ A	
PROTECTED B	NATO RESTRI	CTED		PROTECTED B	
PROTÉGÉ B ✓	Tomas construction and a second construction	ON RESTREINTE L		PROTEGÉ B	
PROTECTED C 7	NATO CONFID			PROTECTED C	
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TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

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8. Will the sup Le fournisse If Yes, indic Dans l'affirm	iur aura-t-il accès à des renseigne ate the level of sensitivity: native, indiquer le niveau de sensit	D and/or CLASSIFIED COMSEC I nents ou à des blens COMSEC dé illité :	şignés PROTÉGÉS et/ou CL	ASSIFIĖS?	✓ Non Yes Oui
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Gouvernement du Canada

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Security Classification / Classification de sécurité

PART D - AUTHORIZATION / PART 13. Organization Project Authority / C			The state of the s			/-(/)	
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Hien Kien Tsang		A/Director	(XI sa	A	8 (
Telephone No N° de téléphone	Facsimile No N° de	lélécopieur	E-mail address - Adresse cou	rriel	Bale And	a(5-2	15
14. Organization Security Authority /	Responsable de la séc	urité de l'orgar	isme	-4	7 / 7	X	
Name (print) - Nom (en lettres moulé	es)	Title - Titre		Signature	. (J .	
AHMED SALAH		SEWA	th specialist		5.	ee?	
Telephone No N° de léléphone	Facsimile No Nº de	télécopieur	E-mail address - Adresse cou	rriel	Date 2616	108/17	
 Are there additional instructions (Des instructions supplémentaires 				nt-elles jointes	?	□ No Non	Yes Oui
16. Procurement Officer / Agent d'ap	provisionnement		······································				
Name (print) - Nom (en lettres moulé	ees)	Title - Titre		Signature			
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17. Contracting Security Authority / /	Autorité contractante er	matière de sé	curité				
Name (print) - Nom (en lettres moulé	·es)	Title - Titre		Signature			
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TBS/SCT 350-103(2004/12)

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Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

Title - Sujet RFP· Resource & Solution Bas	ed			
Contract No N° du contrat 47060-152116/001/EL			Amen 001	dment No N° Modif
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CAD



For the Minister - Pour le Ministre

Coût révisé estimatif \$1,756,358.10

ASFC - Divulgation en vertu de la loi sur l'Accès à l'inform

This Contract Amendment is raised to modify the Annex C - Security Requirements Check List (SRCL) form and replace it with a fully signed one by all parties.

1. Modification to the Annex C - Security Requirements Check List (SRCL) form of the Contract, as follows:

DELETE

Annex C - Security Requirements Check List (SRCL) form, in its entirety; and

REPLACE

with the following:

(see the next page)

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME

COMMON-PS-SRCL#19



Government of Canada

Gouvernement du Canada

Contract Number / Number du contrat
47066-15216-600 / Elassification / Classification de socurité
UNCLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VERIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS) PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE Originating Government Department or Organization / Ministère ou organismo gouvernemental d'origine 2. Branch or Oireclorate / Direction générale ou Direction 3 b) Name and Address of Subcontractor / Nomet addresse du sous fraitant 3. a) Subcontract Number / Numero du contrat de sous fraitance 4. Brief Description of Work / Breve description du travail 5. a) Will the supplier require access to Controlled Goods? Yes ✓ Non Le foumisseur aura-t-il accès à des marchandises contrôlèrs? On b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control No Yes √ Non Regulations? Le fountisseur aura-fat accès a des données fechniques militaires non classifiées qui sont assujetires aux dispositions du Règlement sur le contrôle des données téchniques? Indicate the type of access required / hxfiguer le type d'accès requis 6, a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or ussats? Le fournisseur ainsi que les employes auront-ils accès à des renseignements ou à des biens PROTECES et/ou CLASSIFIES? Yes Non Yes (Specify the level of access using the chart in Question 7. c) (Précisor le micrau d'acces en uldisant le lableau qui se trouve à la question 7, c) 6 b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. No Yes Nim PROTECTED about CLASSIFED information of assets is permitted.

Le formisseur et ses employés (n. ex-nettoyeurs, personnel d'entretien) auront-ils accès a des zones d'accès restreintes? L'accès a des rensegnéments ou à des biens PROTEGES evou CLASSIFIES n'est pas autorisé

6. e) is this a commercial courier or delivery requirement with no overright storage?

S'agil-it d'un contrat de messagene ou de livraison commerciale sans entreposage de nuit? No √ Non 7. a) Indicate the type of information that the supplier will be required to access / Indiquer to type d'information august le fournissour devra avoir accès Canada 🗸 NATO / OTAN Foreign / Étranger 7 b) Release restrictions / Restrictions relatives à la diffusion No release restrictions All NATO countries No release restrictions Aucuna restriction relative Tous les pays de l'OTAN Aucune restriction relative à la diffusion a la diffusion Not releasable À ne oas diffuser Restricted to: / Limité à Restricted to / Limite a Restricted to / Limité à : Specify country(ies): / Preciser lets) pays Specify country(ies). I Preciser lo(s) pays Specify country(ins): / Préciser lets) pays 7. c) Level of information / Miveau d'information NATO UNCLASSIFIED PROTECTED A PROTECTED A NATO NON CLASSIFIE PROTÈGÉ A PROTEGE A PROTECTED B PROTECTED B NATO RESTRICTED PROTÉGÉ B NATO DIFFUSION RESTREINTE PROTEGE B PROTECTED C NATO CONFIDENTIAL PROTECTED C NATO CONFIDENTIEL PROTEGE C PROTÈGE C CONFIDENTIAL NATO SECRET. CONFIDENTIAL CONFIDENTIEL NATO SECRET CONFIDENTIFI COSMIC TOP SECRET SECRET SECRET COSMIC TRES SECRET SECRET SECRET TOP SECRET TOP SECRET TRES SECRET TRES SECRET TOP SECRET (SIGINT) TOP SECRET (SIGINT) TRÉS SECRET (SIGINT TRES SECRET (SIGINT)

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Contract Security Program|Programme de sécurité des contrats f
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Public Services and Procurement Canada| Services publics et Approvisionnement Canada
Jacques Saumur@trisgc-pwysrc.gu.cu
Telephone | Téléphone 613-948-1732
Facsumie | Téléphone 613-943-1712

TBS/SCT 550-103(2004/12)

Security Classification / Classification de sécurité
UNCLASSIFIED

Canada



Public Works and **Government Services** Canada

Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique division EL

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

CON	TRACT	AMENI	OMENT	
MOD	IFICATI	ON AU	CONTR	AT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

ale fonts Carlos Santos, Authorized Signatory Dec 28, 2017 Signature

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

Title - Sujet RFP: Resource & Solution Bas	ed			
Contract No N° du contrat	cu		Amor	idment No N° Modif
47060-152116/001/EL			002	idilicit No N. Modil
Client Reference No N° de re 1000322116	éférence du cl	ient Date 2017-12-20		
Requisition Reference No N 47060-152116	° de la deman	de		,
File No N° de dossier	CCC No./N° C	CC - FM	S No./I	N° VME
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Financial Codes Code(s) financier(s)				GST/HST TPS/TVH
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GST/HST - TPS/TVH	Duty - Droits			
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Destination - of Goods, Service Destination - des biens, service CANADA BORDER SERVICE 330 North River Road, Ontario	ces et constru ES AGENCY (i i, K1A 0L8	ction: CBSA)		
Factures - Envoyer l'original et Canada Border Service Agency Agence des services frontaliers vendors-fournisseurs@cbsa-asl (National Invoice Reception Un 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7	et deux copies du Canada fc.gc.ca (Prefer	à:		
Address Enquiries to: - Adres	ser toutes que	estions à	:	Buyer ld - ld de l'acheteur
Villeneuve, Julie		639el		
Telephone No N° de télépho	one	FAX No.	- N° de	e FAX
(819) 420-5967 ()		() -		
Increase (Decrease) - Augmen	ntation (Dimin	ution)		
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For the Minister - Pour le Ministre

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

639el

This Contract Amendment No.002 is raised in order to Exercise Option Period:

002

- 1. Amend the Revised Estimated Cost;
- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.
- 1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$1,756,358.10

INSERT:

\$5,033,145.60

2. At Article 6, under Contract Period:

DELETE:

Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2019.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to four additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

3. At Article 7 (a) of the Contract, under Contracting Authority:

DELETE:

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

(or Solicitation No. - N° de l'invitation)

47060-152116/001/EL

002

639el

Name:

Nabil Ghaddab

Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate:

Space, Innovation and informatics Projects Directorate

Address:

11 Laurier Street, Gatineau, Québec

Telephone:

873-469-4984

Email:

nabil.ghaddab@tpsgc-pwgsc.gc.ca

INSERT:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: <u>Julie.villeneuve3@tpsgc-pwgsc.gc.ca</u>

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Public Works and Government Services Canada

Travaux publics et Services gouverner Canada

Destination

GST/HST - TPS/TVH

Purchasing Office - Bureau des achats: Informatics Professional Services - EL Division/Services professionnels en informatique division EL 4C2, Place du Portage Gatineau Ouébec KIA 0S5

CONTRACT	AMENI	DMENT
MODIFICATI	ON AU	CONTRAT

The referenced document is hereby amended, unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby appepts/acknowledges this

Le fournisseur/entrepreneur accepte la présente

Witchall Carkner 29 Jan 19

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur 102444452PG0013

IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive Ottawa

Ontario KIG4K9 Canada

Title - Sujet RFP: Resource & Solution	D3		
Contract No N° du contra 47060-152116/001/EL	Amendment No N° Modif 003 Date 2019-01-24		
Client Reference No N° 6 1000322116			
Requisition Reference No. 47060-152116	- N° de la demande	*	
File No N° de dossier 639el 47060-152116	CCC No./Nº CCC - F	MS No/N° VME	
Financial Codes Code(s) financier(s)	***************************************	GST/HST TPS/TVH	

Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Duty - Droits

Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur Villeneuve, Julie 639el Telephone No. - Nº de téléphone FAX No. - N° de FAX (613) 858-9487 () Increase (Decrease) - Augmentation (Diminution) \$500,000.00 Revised estimated cost Currency Type - Genre de devise Coût révisé estimatif \$5,533,145,60 CAD For the Minister - Pour le Ministre

Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.01.25.09.55.46 05'00'

Canad'a

Page 1 of - de 1

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

003

639el

This Contract Amendment No.003 is raised in order to Exercise Option Period:

1. Amend the Revised Estimated Cost; an

2. Amend the Contract Period.

.....

1. On the first page of the contract, under Revised Estimated Cost:

DELETE: \$5,033,145.60

INSERT: \$5,533,145.60

2. At Article 6, under Contract Period:

DELETE: Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2020.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

(b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL
Division/Services professionnels en informatique division EL
4C2, Place du Portage

Gatineau Québec

K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

4.0. Gilla Associate Partner Jan82020 Signature Mélanie Gilbert Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

102444452PG0013 IBM CANADA LIMITED/IBM CANADA LIMITÉE 3755 Riverside Drive

Ottawa Ontario K1G4K9 Canada

Title - Sujet	3		
RFP Resource & Solution Bas	sed		7. Francisco Barra
Contract No N° du contrat 47060-152116/001/EL		004	ndment No N° Modif
Client Reference No N° de référence du client 1000322116			D-12-20
Requisition Reference No N 47060-152116	l° de la demand	de	
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Destination - des biens, servi CANADA BORDER SERVIC 330 North River Road, Ontario Invoices - Original and two c Factures - Envoyer l'original Canada Border Service Agency Agence des services frontaliers	es Agency (6), K1A 0L8 opies to be seret deux copies y s du Canada	ot to:	
vendors-fournisseurs@cbsa-as (National Invoice Reception U 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7		(eu)	v. 9
Address Enquiries to: - Adres	sser toutes que	stions à:	Buyer ld - ld de l'acheteur
Michaud, Daniel	8-		641el
Telephone No N° de télépho	one	FAX No N° c	le FAX
(613) 858-8483 ()		() -	
Increase (Decrease) - Augme	ntation (Dimin	ution)	3
\$3,407,859.00		:	
Revised estimated cost		Currency Type	e - Genre de devise
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For the Minister - Pour le Mir	nistre		
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Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

004

641el

This Contract Amendment No.004 is raised in order to Exercise Option Period and change the Contracting Authority:

- 1. Amend the Revised Estimated Cost;
- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.

1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$5,533,145.60

INSERT:

\$8,941,004.60

2. At Article 6, under Contract Period:

DELETE:

Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends January 29, 2021.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

(b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/001/EL Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

004

641el

3. At Article 7 (a) of the Contract, under Contracting Authority:

DELETE:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: Julie.villeneuve3@tpsgc-pwgsc.gc.ca

INSERT:

Name:

Daniel Michaud

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

10 wellington, Gatineau, QC K1A 0S5

Telephone:

(613) 858-8483

E-mail address: daniel.michaud@tpsgc-pwgsc.gc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.



Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL
Division/Services professionnels en informatique
- division EL
4C2, Place du Portage
Gatineau

Gatineau Québec K1A 0S5

CON	TRACT	- CON	TRA

Your proposal is accepted to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price or prices set out therefor.

Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les biens, services et construction énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6 Canada

Title - Sujet Resource & Solution Based			
Contract No N° du contrat			Date
47060-152116/002/EL		11.	2017-02-24
Client Reference No N° de 1000322116	référence du clier	nt	
Requisition No N° de la de	mande		
47060-152116			
File No N° de dossier	CCC No./N° CCC	- FMS No./	N° VME
615el.47060-152116			007/1107
Financial Code(s) Code(s) financier(s) 1911-100-10 20008576 254'	7/34201		GST/HST TPS/TVH
F.O.B F.A.B.			
Destination			
GST/HST - TPS/TVH	Duty - Droits		
Included - Inclus	See Herein - Vo	oir ci-inclu	S
Destination - of Goods, Serv Destination - des biens, serv CANADA BORDER SERV 330 North River Road, Onta	vices et constructi ICES AGENCY (C rio, K1A 0L8	ion: CBSA)	
Invoices - Original and two of Factures - Envoyer l'original Canada Border Service Ager Agence des services frontali vendors-fournisseurs@cbsa-(National Invoice Reception 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7	l et deux copies à: ncy ers du Canada asfc.gc.ca (Preferr		
Address Enquiries to: - Adre Ghaddab, Nabil	esser toutes quest	ions à:	Buyer ld - ld de l'acheteur 615el
Telephone No N° de télépl (819) 956-5419 ()	none	FAX No	· N° de FAX
Total Estimated Cost - Coût	total estimatif	Currency	Type - Devise



Page 1 of - de 1 000119

CAD

\$3,145,716.00

For the Minister - Pour le Ministre

CONTRACT AGAINST A SUPPLY ARRANGEMENT FOR TASK- BASED INFORMATICS PROFESSIONAL SERVICES (TBIPS)

FOR

VARIOUS RESOURCE CATEGORIES – LEVEL 3 (SEE HEREIN)

ON BEHALF OF

THE CANADA BORDER SERVICES AGENCY

This document contains a security requirement

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List of Annexes to the Resulting Contract:

- Annex A Statement of Work
 - Appendix A Non-Functional Requirements
 - Appendix B Acronyms
 - Appendix C Glossary
 - Appendix D Tasking Assessment Procedure
 - Appendix E Task Authorization (TA) Form
 - Appendix F Resources Assessment Criteria and Response Table
 - Appendix G Certifications at the TA Stage
- Annex B Basis of Payment
- Annex C Security Requirements Check List
 Annex D Non-Disclosure Agreement

1. Requirement

- (a) **Donna Cona Inc.** (the "**Contractor**") agrees to supply to the Client the services described in the Contract, including the Statement of Work, in accordance with, and at the prices set out in, the Contract. This includes providing professional services as and when requested by Canada, to one or more locations to be designated by Canada, excluding any locations in areas subject to any of the Comprehensive Land Claims Agreements.
- (b) Client: Under the Contract, the "Client" is Canada Border Services Agency (CBSA).
- (c) Reorganization of Client: The Contractor's obligation to perform the Work will not be affected by (and no additional fees will be payable as a result of) the renaming, reorganization, reconfiguration, or restructuring of any Client. The reorganization, reconfiguration and restructuring of the Client includes the privatization of the Client, its merger with another entity, or its dissolution, where that dissolution is followed by the creation of another entity or entities with mandates similar to the original Client. In connection with any form of reorganization, Canada may designate another department or government body as the Contracting Authority or Project Authority, as required to reflect the new roles and responsibilities associated with the reorganization.
- (d) **Defined Terms**: Words and expressions defined in the General Conditions or Supplemental General Conditions and used in the Contract have the meanings given to them in the General Conditions or Supplemental General Conditions. Any reference to an Identified User in the Supply Arrangement is a reference to the Client. Also, any reference to a "deliverable" or "deliverables" includes all documentation outlined in this Contract. A reference to a "local office" of the Contractor means an office having at least one full time employee that is not a shared resource working at that location.

2. Task Authorization

- (a) As-and-when-requested Task Authorizations: The Work or a portion of the Work to be performed under the Contract will be on an "as-and-when-requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract. The Contractor must not commence work until a validly issued TA has been issued by Canada and received by the Contractor. The Contractor acknowledges that any work performed before such issuance and receipt will be done at the Contractor's own risk.
- (b) **Assessment of Resources Proposed at TA Stage**: Processes for issuing, responding to and assessing Task Authorizations are further detailed in Appendices D, E, F and G of Annex A.
- (c) Form and Content of draft Task Authorization:
 - (i) The Project Authority will provide the Contractor with a description of the task in a draft Task Authorization using the form specified in Annex A.
 - (ii) The draft Task Authorization will contain the details of the activities to be performed, and must also contain the following information:
 - (A) the task number;
 - (B) The date by which the Contractor's response must be received (which will appear in the draft Task Authorization, but not the issued Task Authorization);
 - (C) the details of any financial coding to be used;
 - (D) the categories of resources and the number required;
 - a description of the work for the task outlining the activities to be performed and identifying any deliverables (such as reports);
 - (F) the start and completion dates;
 - (G) milestone dates for deliverables and payments (if applicable);

- (H) the number of person-days of effort required;
- (I) whether the work requires on-site activities and the location;
- (J) the language profile of the resources required;
- (K) the level of security clearance required of resources;
- (L) the price payable to the Contractor for performing the task under a maximum TA price (the TA must indicate how the final amount payable will be determined; where the TA does not indicate how the final amount payable will be determined, the amount payable is the amount, up to the maximum, that the Contractor demonstrates was actually worked on the project, by submitting time sheets filled in at the time of the work by the individual resources to support the charges); and
- (M) any other constraints that might affect the completion of the task.
- (d) Contractor's Response to Draft Task Authorization: The Contractor must provide to the Project Authority, within 3 working days of receiving the draft Task Authorization (or within any longer time period specified in the draft TA), the proposed total price for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract. The Contractor's quotation must be based on the rates set out in the Contract. The Contractor will not be paid for preparing or providing its response or for providing other information required to prepare and validly issue the TA.
- (e) Task Authorization Limit and Authorities for Validly Issuing Task Authorizations:

To be validly issued, a TA must include the following signatures:

- (i) for any TA, inclusive of revisions, with a value less than or equal to \$300,000.00 (excluding Applicable Taxes), the TA must be signed by the Project Authority; and
- (ii) for any TA, inclusive of revisions, with a value greater than this amount, a TA must include the following signatures:
 - (1) the Project Authority; and
 - (2) the Contracting Authority.

Any TA that does not bear the appropriate signature(s) is not validly issued by Canada. Any work performed by the Contractor without receiving a validly issued TA is done at the Contractor's own risk. If the Contractor receives a TA that is not appropriately signed, the Contractor must notify the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Client's ability to issue TA's at any time, or reduce the dollar value threshold described in sub-article (i) above; any suspension or reduction notice is effective upon receipt.

(f) Periodic Usage Reports:

- (i) The Contractor must compile and maintain records on its provision of services to the federal government under Task Authorizations validly issued under the Contract. The Contractor must provide this data to Canada in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report. The data must be submitted on a quarterly basis to the Contracting Authority. From time to time, the Contracting Authority may also require an interim report during a reporting period.
- (ii) The quarterly periods are defined as follows:
 - (A) 1st quarter: April 1 to June 30;
 - (B) 2nd quarter: July 1 to September 30;
 - (C) 3rd quarter: October 1 to December 31; and

(D) 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 15 calendar days after the end of the reporting period.

- (iii) Each report must contain the following information for each validly issued TA (as amended):
 - (A) the Task Authorization number and the Task Authorization Revision number(s), if applicable;
 - (B) a title or a brief description of each authorized task;
 - (C) the name, Resource category and level of each resource involved in performing the TA, as applicable;
 - (D) the total estimated cost specified in the validly issued TA of each task, exclusive of Applicable Taxes;
 - (E) the total amount, exclusive of Applicable Taxes, expended to date against each authorized task:
 - (F) the start and completion date for each authorized task; and
 - (G) the active status of each authorized task, as applicable (e.g., indicate whether work is in progress or if Canada has cancelled or suspended the TA, etc.).
- (g) Refusal of Task Authorizations or Submission of a Response which is not Valid: The Contractor is not required to submit a response to every draft TA sent to it by Canada. However, in addition to Canada's other rights to terminate the Contract, Canada may immediately, and without further notice, terminate the Contract for default in accordance with the General Conditions if the Contractor in at least three instances has either not responded or has not submitted a valid response when sent a draft TA. For greater clarity, each draft TA, which is identifiable by its task number, will only count as one instance. A valid response is one that is submitted within the required time period and meets all requirements of the draft TA issued, including proposing the required number of resources who each meet the minimum experience and other requirements of the categories identified in the draft TA at pricing not exceeding the rates set out in Annex B.
- (h) **Consolidation of TA's for Administrative Purposes**: The Contract may be amended from time to time to reflect all validly issued Task Authorizations to date, to document the Work performed under those TA's for administrative purposes.
- 3. Minimum Work Guarantee
- (a) In this clause,
 - (i) "Maximum Contract Value" means the amount specified in the "Limitation of Expenditure" clause set out in the Contract (excluding Applicable Taxes); and
 - (ii) "Minimum Contract Value" means \$20,000.00.
- (b) Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with sub-article (c), subject to sub-article (d). In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract Period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
- (c) In the event that Canada does not request work in the amount of the Minimum Contract Value during the Contract Period, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.

- (d) Canada will have no obligation to the Contractor under this article if Canada terminates the entire Contract
 - (i) for default;
 - (ii) for convenience as a result of any decision or recommendation of a tribunal or court that the contract be cancelled, re-tendered or awarded to another supplier; or
 - (iii) for convenience within ten business days of Contract award.

4. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

(a) General Conditions:

 2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

With respect to Section 30 - Termination for Convenience, of General Conditions 2035, Subsection 04 is deleted and replaced with the following Subsections 04, 05 and 06:

- 4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price.
- 5. Where the Contracting Authority terminates the entire Contract and the Articles of Agreement include a Minimum Work Guarantee, the total amount to be paid to the Contractor under the Contract will not exceed the greater of:
 - (a) the total amount the Contractor may be paid under this section, together with any amounts paid, becoming due other than payable under the Minimum Revenue Guarantee, or due to the Contractor as of the date of termination, or
 - (b) the amount payable under the Minimum Work Guarantee, less any amounts paid, due or otherwise becoming due to the Contractor as of the date of termination.
- 6. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

(b) Supplemental General Conditions:

The following Supplemental General Conditions:

- 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
- (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;

apply to and form part of the Contract.

5. Security Requirement

- (a) The following security requirements apply to and form part of the Contract:
 - (i) The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

- (ii) The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of **SECRET**, granted or approved by CISD/PWGSC.
- (iii) The Contractor MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
- (iv) Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- (v) The Contractor must comply with the provisions of the:
 - (A) Security Requirements Check List and security guide (if applicable), attached at Annex C:
 - (B) Industrial Security Manual (Latest Edition).

(b) Additional Security Requirement

- (i) The CBSA, will conduct its own personnel Reliability Status assessment the Contractor (specifically the Contractor personnel), which is allowed under the Treasury Board Secretariat of Canada's (TBS) "Security and Contracting Management Standard" and the Policy on Government Security Personnel Security Standard. Reliability Status assessment conducted by the CBSA will include a credit check.
- (ii) If the Contractor (specifically the Contractor personnel), has already been screened under the TBS Policy on Government Security - Personnel Security Standard, the Contractor (specifically the Contractor personnel), will still undergo a security screening process to be conducted by the CBSA.
- (iii) The credit check and fingerprinting, if required, will be performed by an authorized security official with the CBSA's "Personnel Security Screening Section" (PSSS), which is independent of the Public Works and Government Services Canada's (PWGSC), "Canadian and International Industrial Security Directorate" (CIISD).
- (iv) Until the credit check, fingerprinting (if required) and all other security screening processes required have been completed and the Contractor (specifically the Contractor personnel) is deemed suitable by the CBSA, the Contractor (specifically the Contractor personnel) will not be permitted access to Protected / Classified information or assets, and further, will not be permitted to enter sites where such information or assets are kept.
- (c) The Company Security Officer (CSO) must ensure through the Industrial Security Program (ISP) that the Contractor and individual(s) hold a valid security clearance at the required level.

6. Contract Period

- (a) **Contract Period**: The "**Contract Period**" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends one year later; and
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any options set out in the Contract.

(b) Option to Extend the Contract:

(i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to five additional one-year periods under the same terms and conditions.

The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.

(ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

7. Authorities

(a) Contracting Authority

The Contracting Authority for the Contract is:

Name: Nabil Ghaddab Title: Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Directorate: Space, Innovation, and Informatics Projects Directorate

Address: 11 Laurier St., Gatineau, Québec

Telephone: 873-469-4984

E-mail address: nabil.ghaddab@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

(b) Project Authority

The Project Authority for the Contract is:

Erin Lapensee

Telephone: 343-291-6223

Email: Erin.Lapensee@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the Project content of the Work under the Contract. Project matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

In her absence, the Project Authority is:

Robert Penwarden

Telephone: 343-291-5669

Email: Robert.Penwarden@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

OR

Matthew Woods

Telephone: 343-291-5726

Email: Matthew.Woods@cbsa-asfc.gc.ca

Address: 355 North River Road, Tower B, 17th Floor, Ottawa, Ontario, K1A 0L8, Canada

(c) Contractor's Representative

Name: Mark Coldham
Title: Account Executive
Organization: Donna Cona Inc

Address: 100-106 Colonnade Road, Ottawa ON, K2E 7L6

Telephone: (work) 613-234-5407

E-mail address: contracts@donnacona.com

8. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental web sites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

9. Payment

(a) Basis of Payment

- (i) Professional Services provided under a Task Authorization with a Maximum Price: For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor, in arrears, up to the Maximum Price for the TA, for actual time worked and any resulting deliverables in accordance with the firm all-inclusive per diem rates set out in Annex B, Basis of Payment, Applicable Taxes extra. Partial days will be prorated based on actual hours worked based on a 7.5-hour workday.
- (ii) Travel and Living Expenses National Joint Council Travel Directive The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". All travel must have the prior authorization of the Contracting Authority. Travel requests will only be considered for a work location which is located more than 100 kilometers from the National Capital Region. The Contractor will be paid for actual time spent travelling at half the hourly rate. The hourly rate will be determined by dividing the firm per diem rate set out in Annex B by 7.5 hours. All payments are subject to government audit.
- (iii) Competitive Award: The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.
- (iv) Professional Services Rates: In Canada's experience, bidders from time to time propose rates at the time of bidding for one or more Resource Categories that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. This denies Canada of the benefit of the awarded contract. If the Contractor does not respond or refuses to provide an individual with the qualifications described in the Contract within the time described in the Contract (or proposes instead to provide someone from an alternate category at a different rate), whether or not Canada terminates the Contract as a whole or in part or chooses to exercise any of the rights provided to it under the general conditions, Canada may impose sanctions or take other measures in accordance with the PWGSC Vendor Performance Corrective Measure Policy (or equivalent) then in effect, which measures may include an

assessment that results in conditions applied against the Contractor to be fulfilled before doing further business with Canada, or full debarment of the Contractor from bidding on future requirements.

(b) Limitation of Expenditure – Cumulative Total of all Task Authorizations

- (i) Canada's total liability to the Contractor under the Contract for all validly issued Task Authorizations (TAs), inclusive of any revisions, must not exceed the amount set out on page 1 of the Contract, less any Applicable taxes. With respect to the amount set out on page 1 of the Contract, Customs duties are excluded and Applicable Taxes are included
- (ii) No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
- (iii) The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - (A) when it is 75 percent committed, or
 - (B) 4 months before the contract expiry date, or
 - (C) As soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,

whichever comes first.

- (iv) If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Providing this information does not increase Canada's liability.
- (c) **Method of Payment for Task Authorizations with a Maximum Price**: For each Task Authorization validly issued under the Contract that contains a maximum price:
 - (i) Canada will pay the Contractor no more frequently than once a month in accordance with the Basis of Payment. The Contractor must submit time sheets for each resource showing the days and hours worked to support the charges claimed in the invoice.
 - (ii) Once Canada has paid the maximum TA price, Canada will not be required to make any further payment, but the Contractor must complete all the work described in the TA, all of which is required to be performed for the maximum TA price. If the work described in the TA is completed in less time than anticipated, and the actual time worked (as supported by the time sheets) at the rates set out in the Contract is less than the maximum TA price, Canada is only required to pay for the time spent performing the work related to that TA.

(d) Time Verification

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contract must repay any overpayment, at Canada's request.

(e) Payment Credits

- (i) Failure to Provide Resource:
 - (A) If the Contractor does not provide a required professional services resource that has all the required qualifications within the time prescribed by the Contract, the Contractor must credit to Canada an amount equal to the per diem rate (based on a 7.5-hour workday) of the required resource for each day (or partial day) of delay in providing the resource, up to a maximum of 10 days.
 - (B) Corrective Measures: If credits are payable under this Article for two consecutive months or for three months in any 12-month period, the Contractor must submit a written action plan describing measures it will implement or actions

it will undertake to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority and 20 working days to rectify the underlying problem.

- (C) **Termination for Failure to Meet Availability Level**: In addition to any other rights it has under the Contract, Canada may terminate the Contract for default in accordance with the General Conditions by giving the Contractor three months' written notice of its intent, if any of the following apply:
 - (1) the total amount of credits for a given monthly billing cycle reach a level of 10% of the total billing for that month; or
 - (2) the corrective measures required of the Contractor described above are not met.

This termination will be effective when the three month notice period expires, unless Canada determines that the Contractor has implemented the corrective measures to Canada's satisfaction during those three months.

- (ii) Credits Apply during Entire Contract Period: The Parties agree that the credits apply throughout the Contract Period.
- (iii) Credits represent Liquidated Damages: The Parties agree that the credits are liquidated damages and represent their best pre-estimate of the loss to Canada in the event of the applicable failure. No credit is intended to be, nor will it be construed as, a penalty.
- (iv) Canada's Right to Obtain Payment: The Parties agree that these credits are a liquidated debt. To collect the credits, Canada has the right to hold back, draw back, deduct or set off from and against any money Canada owes to the Contractor from time to time.
- (v) Canada's Rights & Remedies not Limited: The Parties agree that nothing in this Article limits any other rights or remedies to which Canada is entitled under the Contract (including the right to terminate the Contract for default) or under the law generally.
- (vi) Audit Rights: The Contractor's calculation of credits under the Contract is subject to verification by government audit, at the Contracting Authority's discretion, before or after payment is made to the Contractor. The Contractor must cooperate fully with Canada during the conduct of any audit by providing Canada with access to any records and systems that Canada considers necessary to ensure that all credits have been accurately credited to Canada in the Contractor's invoices. If an audit demonstrates that past invoices contained errors in the calculation of the credits, the Contractor must pay to Canada the amount the audit reveals was required to be credited to Canada, plus interest, from the date Canada remitted the excess payment until the date of the refund (the interest rate is the Bank of Canada's discount annual rate of interest in effect on the date the credit was first owed to Canada, plus 1.25% per year). If, as a result of conducting an audit, Canada determines that the Contractor's records or systems for identifying, calculating or recording the credits are inadequate, the Contractor must implement any additional measures required by the Contracting Authority.

(f) No Responsibility to Pay for Work not performed due to Closure of Government Offices

- (i) Where the Contractor, its employees, subcontractors, or agents are providing services on government premises under the Contract and those premises are inaccessible because of the evacuation or closure of government offices, and as a result no work is performed, Canada is not responsible for paying the Contractor for work that otherwise would have been performed if there had been no evacuation or closure.
- (ii) If, as a result of any strike or lock-out, the Contractor or its employees, subcontractors or agents cannot obtain access to government premises and, as a result, no work is performed, Canada is not responsible for paying the Contractor for work that otherwise

would have been performed if the Contractor had been able to gain access to the premises

10. Invoicing Instructions

- (a) The Contractor must submit invoices in accordance with the information required in the General Conditions
- (b) The Contractor's invoice must include a separate line item for each subparagraph in the Basis of Payment provision, and must show all applicable Task Authorization numbers.
- (c) By submitting invoices, the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
- (d) The Contractor must provide the original to CBSA National Invoice Receiving Unit (<u>Vendors-Fournisseurs@cbsa-asfc.gc.ca</u>) for processing, and a copy to the Contracting Authority.

11. Certifications

The continuous compliance with the certifications provided by the Contractor in its bid, any TA quotation and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire Contract Period. If the Contractor does not comply with any certification, or fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

12. Federal Contractors Program for Employment Equity - Default by Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

13. Copyright In Material

- (a) In this section, "Material" means anything that is created by the Contractor as part of the Work under the Contract that is required by the Contract to be delivered to Canada and in which copyright subsists, excluding any computer software code and all documentation manuals or guides intended to assist end users or technicians in respect of that code. "Material" does not include anything created by the Contractor before the award date of the Contract.
- (b) Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).
- (c) The Contractor must not use, copy, divulge or publish any Material except as is necessary to perform the Contract. The Contractor must execute any conveyance and other documents relating to copyright in the Material as Canada may require.
- (d) The Contractor must provide at the request of Canada a written permanent waiver of moral rights, in a form acceptable to Canada, from every author that contributed to the Material. If the Contractor is the author of the Material, the Contractor permanently waives its moral rights in the Material.

14. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

15. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the following list, the wording of the document that first appears on the list has priority over the wording of any document that appears later on the list:

- (a) these Articles of Agreement, including any individual SACC clauses incorporated by reference in these Articles of Agreement;
- (b) Supplemental General Conditions, in the following order:
 - (i) 4002 (2010-08-16), Supplemental General Conditions Software Development or Modification Services;
 - (ii) 4006 (2010-08-16), Supplemental General Conditions Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) General Conditions 2035 (2016-04-04), Higher Complexity Services;
- (d) Annex A, Statement of Work Annex A including its Appendices as follows;
 - (i) Appendix D to Annex A Tasking Assessment Procedure;
 - (ii) Appendix E to Annex A Task Authorization (TA) Form;
 - (iii) Appendix F to Annex A Resource Assessment Criteria and Response Table;
 - (iv) Appendix G to Annex A Certifications at the TA stage;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Security Requirements Check List;
- (g) Annex D; Non-Disclosure Agreement;
- the validly issued Task Authorizations and any required certifications (including all of their annexes, if any); and
- (i) the Contractor's bid dated November 7, 2016.

16. Foreign Nationals (Canadian Contractor)

(a) SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

17. Insurance Requirements

(a) Compliance with Insurance Requirements

- (i) The Contractor must comply with the insurance requirements specified in this Article. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.
- (ii) The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.
- (iii) The Contractor should forward to the Contracting Authority within ten (10) days after the date of award of the Contract a Certificate of Insurance evidencing the insurance coverage. Coverage must be placed with an Insurer licensed to carry out business in Canada and the Certificate of Insurance must confirm that the insurance policy complying with the requirements is in force. If the Certificate of Insurance has not been completed and submitted as requested, the Contracting Authority will so inform the Contractor and

provide the Contractor with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within the time period will constitute a default under the General Conditions. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

(b) Commercial General Liability Insurance

- (i) The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
- (ii) The Commercial General Liability policy must include the following:
 - (A) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - (B) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (C) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - (D) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - (E) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - (F) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - (G) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (H) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (I) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
 - (J) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - (K) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
 - (L) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
 - (M) Advertising Injury: While not limited to, the endorsement must include coverage for piracy or misappropriation of ideas, or infringement of copyright, trademark, title or slogan.

(c) Errors and Omissions Liability Insurance

- (i) The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- (ii) If the Professional Liability insurance is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- (iii) The following endorsement must be included:
 Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

18. Limitation of Liability - Information Management/Information Technology

(a) This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees. This section applies regardless of whether the claim is based in contract, tort, or another cause of action. The Contractor is not liable to Canada with respect to the performance of or failure to perform the Contract, except as described in this section and in any section of the Contract pre-establishing any liquidated damages. The Contractor is only liable for indirect, special or consequential damages to the extent described in this Article, even if it has been made aware of the potential for those damages.

(b) First Party Liability:

- (i) The Contractor is fully liable for all damages to Canada, including indirect, special or consequential damages, caused by the Contractor's performance or failure to perform the Contract that relate to:
 - (A) any infringement of intellectual property rights to the extent the Contractor breaches the section of the General Conditions entitled "Intellectual Property Infringement and Royalties";
 - (B) physical injury, including death.
- (ii) The Contractor is liable for all direct damages caused by the Contractor's performance or failure to perform the Contract affecting real or tangible personal property owned, possessed, or occupied by Canada.
- (iii) Each of the Parties is liable for all direct damages resulting from any breach of confidentiality under the Contract. Each of the Parties is also liable for all indirect, special or consequential damages in respect of any unauthorized disclosure of the other Party's trade secrets (or trade secrets of a third party provided by one Party to another under the Contract) relating to information technology.
- (iv) The Contractor is liable for all direct damages relating to any encumbrance or claim relating to any portion of the Work for which Canada has made any payment. This does not apply to encumbrances or claims relating to intellectual property rights, which are addressed under (i)(A) above.
- (v) The Contractor is also liable for any other direct damages to Canada caused by the Contractor's performance or failure to perform the Contract that relate to:

- (A) any breach of the warranty obligations under the Contract, up to the total amount paid by Canada (including any applicable taxes) for the goods and services affected by the breach of warranty; and
- (B) Any other direct damages, including all identifiable direct costs to Canada associated with re-procuring the Work from another party if the Contract is terminated either in whole or in part for default, up to an aggregate maximum for this subparagraph (B) of the greater of .75 times the total estimated cost (meaning the dollar amount shown on the first page of the Contract in the cell titled "Total Estimated Cost" or shown on each call-up, purchase order or other document used to order goods or services under this instrument), or \$1,000,000.00.

In any case, the total liability of the Contractor under subparagraph (v) will not exceed the total estimated cost (as defined above) for the Contract or \$1.000.000.00, whichever is more.

(vi) If Canada's records or data are harmed as a result of the Contractor's negligence or willful act, the Contractor's only liability is, at the Contractor's own expense, to restore Canada's records and data using the most recent back-up kept by Canada. Canada is responsible for maintaining an adequate back-up of its records and data.

(c) Third Party Claims:

- (i) Regardless of whether a third party makes its claim against Canada or the Contractor, each Party agrees that it is liable for any damages that it causes to any third party in connection with the Contract as set out in a settlement agreement or as finally determined by a court of competent jurisdiction, where the court determines that the Parties are jointly and severally liable or that one Party is solely and directly liable to the third party. The amount of the liability will be the amount set out in the settlement agreement or determined by the court to have been the Party's portion of the damages to the third party. No settlement agreement is binding on a Party unless its authorized representative has approved the agreement in writing.
- (ii) If Canada is required, as a result of joint and several liability or joint and solidarily liable, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada by the amount finally determined by a court of competent jurisdiction to be the Contractor's portion of the damages to the third party. However, despite Subarticle (i), with respect to special, indirect, and consequential damages of third parties covered by this Section, the Contractor is only liable for reimbursing Canada for the Contractor's portion of those damages that Canada is required by a court to pay to a third party as a result of joint and several liability that relate to the infringement of a third party's intellectual property rights; physical injury of a third party, including death; damages affecting a third party's real or tangible personal property; liens or encumbrances on any portion of the Work; or breach of confidentiality.
- (iii) The Parties are only liable to one another for damages to third parties to the extent described in this Sub-article (c).

19. Professional Services - General

- (a) The Contractor must provide professional services on request as specified in this Contract. All resources provided by the Contractor must meet the qualifications described in the Contract (including those relating to previous experience, professional designation, education, language proficiency and security clearance) and must be competent to provide the required services by any delivery dates described in the Contract.
- (b) If the Contractor fails to deliver any deliverable (excluding delivery of a specific individual) or complete any task described in the Contract on time, in addition to any other rights or remedies available to Canada under the Contract or the law, Canada may notify the Contractor of the

deficiency, in which case the Contractor must submit a written plan to the Project Authority within ten working days detailing the actions that the Contractor will undertake to remedy the deficiency. The Contractor must prepare and implement the plan at its own expense.

(c) In General Conditions 2035, the Article titled "Replacement of Specific Individuals" is deleted and the following applies instead:

Replacement of Specific Individuals

- (i) If the Contractor is unable to provide the services of any specific individual identified in the Contract to perform the services, the Contractor must within five working days of having this knowledge, the individual's departure or failure to commence Work (or, if Canada has requested the replacement, within ten working days of Canada's notice of the requirement for a replacement) provide to the Contracting Authority:
 - (A) the name, qualifications and experience of a proposed replacement immediately available for Work; and
 - (B) security information on the proposed replacement as specified by Canada, if applicable.

The replacement must have qualifications and experience that meet or exceed those obtained for the original resource.

- (ii) Subject to an Excusable Delay, where Canada becomes aware that a specific individual identified under the Contract to provide services has not been provided or is not performing, the Contracting Authority may elect to:
 - (A) exercise Canada's rights or remedies under the Contract or at law, including terminating the Contract in whole or in part for default under the Article titled "Default of the Contractor", or
 - (B) assess the information provided under (c) (i) above or, if it has not yet been provided, require the Contractor to propose a replacement to be rated by the Project Authority. The replacement must have qualifications and experience that are similar or exceed those obtained for the original resource and be acceptable to Canada. Upon assessment of the replacement, Canada may accept the replacement, exercise the rights in (ii) (A) above, or require another replacement in accordance with this sub-article (c).

Where an Excusable Delay applies, Canada may require (c) (ii) (B) above instead of terminating under the "Excusable Delay" Article. An Excusable Delay does not include resource unavailability due to allocation of the resource to another Contract or project (including those for the Crown) being performed by the Contractor or any of its affiliates.

- (iii) The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that an original or replacement resource stop performing the Work. In such a case, the Contractor must immediately comply with the order. The fact that the Contracting Authority does not order a resource to stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.
- (iv) The obligations in this article apply despite any changes that Canada may have made to the Client's operating environment.

20. Safeguarding Electronic Media

(a) Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.

(b) If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

21. Representations and Warranties

The Contractor made statements regarding its own and its proposed resources' experience and expertise in its bid that resulted in the award of the Contract and the issuance of TA's. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract and adding work to it through TA's. The Contractor also represents and warrants that it has, and all its resources and subcontractors that perform the Work have, and at all times during the Contract Period they will have and maintain, the skills, qualifications, expertise and experience necessary to perform and manage the Work in accordance with the Contract, and that the Contractor (and any resources or subcontractors it uses) has previously performed similar services for other customers.

22. Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Project Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor. If Canada chooses, in its discretion, to make its property, facilities, equipment, documentation or personnel available to the Contractor to perform the Work, Canada may require an adjustment to the Basis of Payment and additional security requirements may apply.

23. Government Property

Canada agrees to supply the Contractor with the items listed in Sections 9. Client Support and 12. Technical Environment of Annex A, Statement of Work (the "Government Property"). The section of the General Conditions entitled "Government Property" also applies to the use of the Government Property by the Contractor.

24. Identification Protocol Responsibilities

The Contractor will be responsible for ensuring that each of its agents, representatives or subcontractors (hereinafter referred to as Contractor Representatives) complies with the following self-identification requirements:

- (a) Contractor Representatives who attend a Government of Canada meeting (whether internal or external to Canada's offices) must identify themselves as Contractor Representatives prior to the commencement of the meeting, to ensure that each meeting participant is aware of the fact that the individual is not an employee of the Government of Canada;
- (b) During the performance of any Work at a Government of Canada site, each Contractor Representative must be clearly identified at all times as being a Contractor Representative; and
- (c) If a Contractor Representative requires the use of the Government of Canada's e-mail system in the performance of the Work, then the individual must clearly identify him or herself as an agent or subcontractor of the Contractor in all electronic mail in the signature block as well as under "Properties." This identification protocol must also be used in all other correspondence, communication, and documentation.
- (d) If Canada determines that the Contractor is in breach of any obligation stated in this Article, upon written notice from Canada the Contractor must submit a written action plan describing corrective measures it will implement to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority, and twenty working days to rectify the underlying problem.
- (e) In addition to any other rights it has under the Contract, Canada may terminate the Contract for default if the corrective measures required of the Contractor described above are not met.

ANNEX A STATEMENT OF WORK

(SEE ATTACHED HERETO)

ANNEX B BASIS OF PAYMENT

1. Professional Services

In accordance with the Contract, the Contractor will be paid the following firm all-inclusive per diem rates for work performed pursuant to this Contract, Applicable Taxes extra.

Initial Contract Period:

Initial Contract Period (From February 24, 2017 to February 23, 2018)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3	***************************************	
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3		
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3		
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3	***************************************	

Option Periods:

Option Period 1 (From February 24, 2018 to February 23, 2019)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	*	
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3		
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3		
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3	***************************************	
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3	***************************************	

Option Period 2 (From February 24, 2019 to February 23, 2020)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3	***************************************	
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3	***************************************	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3	333333333333333	
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3	***************************************	
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3		

Option Period 3 (From February 24, 2020 to February 23, 2021) Level of **Resource Category** Firm Per Diem Expertise Rate Application/Software Architect - Specialty in IBM Master Data Level 3 Management (MDM) Server Application/Software Architect - Specialty in IBM InfoSphere Level 3 Information Server (IIS) DataStage and Quality Stage Application/Software Architect - Specialty in IBM Infosphere Level 3 Identity Insight (ISII) Programmer/Software Developer - Specialty in IBM Level 3 InfoSphere Information Server (IIS) DataStage and QualityStage Programmer/Software Developer - Specialty in IBM Master Level 3 Data Management (MDM) - Java development Programmer/Software Developer - Specialty in pME Level 3 (probabilistic Matching Engine) - Matching algorithm development Level 3 Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII) Programmer/Software Developer - Specialty in IBM Global Level 3 Name Management (GNM) Business System Analyst - Specialty in IBM Master Data Level 3 Management (MDM) - Data Governance

Option Period 4 (From February 24, 2021 to February 23, 2022)			
Resource Category	Level of Expertise	Firm Per Diem Rate	
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3		
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3		
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3	524444444444444444444444444444444444444	
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3		
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3		
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3		

Option Period 5 (From February 24, 2022 to February 23, 2023)				
Resource Category	Level of Expertise	Firm Per Diem Rate		
Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	Level 3	·		
Application/Software Architect - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	Level 3			
Application/Software Architect - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3	***************************************		
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	Level 3			
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	Level 3			
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development	Level 3			
Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	Level 3			
Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	Level 3			
Business System Analyst - Specialty in IBM Master Data Management (MDM) - Data Governance	Level 3			

ANNEX C SECURITY REQUIREMENTS CHECK LIST

(SEE ATTACHED HERETO)

ANNEX D NON-DISCLOSURE AGREEMENT

I,, recognize that in the course of my work as an employee or
I,, recognize that in the course of my work as an employee or subcontractor of, I may be given access to information by or on behalf of Canada in connection with the Work, pursuant to Contract No.
on behalf of Canada in connection with the Work, pursuant to Contract No.
between Her Majesty the Queen in right of Canada, represented by
the President of the CBSA and, including any information that is
confidential or proprietary to third parties, and information conceived, developed or
produced by the Contractor as part of the Work. For the purposes of this agreement,
information includes but not limited to: any documents, instructions, guidelines, data,
material, advice or any other information whether received orally, in printed form,
recorded electronically, or otherwise and whether or not labeled as proprietary or
sensitive, that is disclosed to a person or that a person becomes aware of during the
performance of the Contract.
I agree that I will not reproduce copy, use, divulge, release or disclose, in whole or in
part, in whatever way or form any information described above to any person other
than a person employed by Canada on a need to know basis. I undertake to safeguard
the same and take all necessary and appropriate measures, including those set out in
any written or oral instructions issued by Canada, to prevent the disclosure of or
access to such information in contravention of this agreement.
I also acknowledge that any information provided to the Contractor by or on behalf of
Canada must be used solely for the purpose of the Contract and must remain the
property of Canada or a third party, as the case may be.
I agree that the obligation of this agreement will survive the completion of the Contract
No. #
Signature
Date

ASFC - Divulgation en vertu de la loi sur l'Accès à l'Info

Annex A - Statement of Work (SOW)

Acquisition of Professional Services for SOAPS-MDMS-ERASS

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1. Introduction

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various key initiatives (e.g. Beyond the Border, Entry-Exit, Biometrics, Generic Passage Flow), and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the CBSA's transformation agenda, ISTB has implemented an enterprise approach to the management of its portfolio of systems, projects and services. The following key steps have been taken to implement this enterprise approach to portfolio management:

- The creation of ISTB Service Portfolio Directorates Corporate, Commercial, Traveler and Common Services;
- The implementation of a Service Life Cycle Management Framework (SLMF) to help align the
 provision of ISTB services with the needs of CBSA. The SLMF is used to integrate the methods,
 processes, roles and responsibilities within ISTB with CBSA's business strategy to deliver value.
 The SLMF establishes a baseline from which ISTB can plan, build, operate, manage and evolve
 services; and
- The alignment and implementation of the following frameworks: Project Management, Project Portfolio and Service Life Cycle Management.

As part of this transformation the Common Services Portfolio has been created with the mandate of leading key projects to deliver various new enterprise building bock capabilities and services for CBSA. These projects include Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS). Together, they will provide enterprise back-end capabilities for Entry-Exit and other key CBSA initiatives.

2. Background

The Common Services Portfolio has a mandate to plan, lead and stand up, in multiple releases, key mission-critical, large-scale, high-volume foundational services to deliver increased horizontal capabilities and services for CBSA. The services to be implemented are Service Oriented Architecture Platform Services (SOAPS), Master Data Management Services (MDMS), and Enterprise Risk Assessment Support Services (ERASS).

The delivery of these foundational services will allow CBSA to increase its ability to meet its security obligations and provide both efficient and effective management of its resources in support of risk management and assessment activities.

2.1 SOAPS

SOA will enable reusable, horizontal enterprise services providing modern, robust, and agile IT services. The CBSA SOA services will be realized by integrating a number of Commercial Off-the-Shelf (COTS) products, augmented by custom development for capabilities not readily available in the market.

The SOA platform services will be a cornerstone of CBSA's information technology systems to promote the development of horizontal services within the enterprise, they will enable re-use of common business function.

These platform services will be used by CBSA Lines of business (LOB) initiatives to develop and deploy ITenabled business services. COTS products, ESB IBM Integrated Bus (IIB), IBM Business Process Manager (BPM), IBM Operational Decision Manager (ODM) Standard, and IBM Operational Decision Manager (ODM) Advanced will be used to enable and support the SOA platform services.

2.2 MDMS

MDM will become the authoritative system of record for CBSA's people and business tombstone data and will be critical in enabling a 360 degree view of people and businesses. After the MDM system is put in place, all systems at CBSA will have the ability to integrate with the MDM solution when requiring access to people and business tombstone data.

Stewards responsible for maintaining the MDM data quality will be put in place as part of the initiative and will align to the overall direction for data governance to be provided by the Enterprise Data Governance initiative.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IBM InfoSphere Information server (IIS) product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

The MDMS requires the use of the following architecture components:

- The Master Data Management (MDM)component will provide services to maintain and search
 party information (businesses and people) as well as a user interface to govern the mastered
 data (data stewardship interface).
- The Data Preparation and Loading Service (DPLS) component will provide services to extract, cleanse, standardize, transform and ingest data during initial load as well as ongoing operational processes.

2.3 ERASS

Enterprise Risk Assessment Support Service (ERASS) will build upon the SOA platform to deliver the Entity Resolution and Search Service providing enterprise services in support of the CBSA risk assessment landscape.

Its primary services relate to identity resolution, fuzzy search, and federated search of information related to a specified person across multiple LOB systems. ERASS is dependent on MDMS and SOAPS as a result of service provisioning and utilization amongst them.

ERASS will leverage MDMS for entity resolution, data preparation, and data loading services. ERASS will also require the ESB component within SOAPS to host the public interface and processes that comprise the services offered by ERASS.

Additionally, ERASS could make use of Informatica SSA Name 3 as a component of the Fuzzy Search Service. Relationship resolution is an additional service offered by ERASS which will provide obvious and non-obvious relationship discovery capabilities for ingested entities. The Relationship Resolution Service (RRS) will require IBM's InfoSphere Identity Insight (ISII) COTS software product as an architecture component.

2.4 Travellers - Entry-Exit

Entry-Exit will be the initial on-boarder to the components included in the SOA platform services. Entry-Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program integrity. The key deliverables of the Entry-Exit Project rely on the ability to identify individuals and recognize if they are known or unknown to CBSA.

The delivery of the Entry-Exit project is dependent on the components found in the SOA platform services. Entry-Exit will leverage the SOA and MDM components to deliver the following:

- Calculating duration of complete Entry to Exit Events.
- Calculating duration of complete Exit to Entry Events
- Calculating duration of open Exit Events.
- Calculating duration of open Entry Events.
- Calculating complete events over specified periods of time.
- Reconciliation of data from multiple sources to create an Entry or Exit Event.
- Determination of mode of transportation.
- Enhanced people name searching and matching support;
- Identity resolution for entities that exist in multiple databases;
- Relationship resolution for entities across multiple databases, and;
- Alerting.

An ingestion service based on IBM InfoSphere DataStage and QualityStage COTS, under the IIS product suite, will be used to feed required data (initial loads and ongoing feeds) from various CBSA data sources into relevant COTS for search purposes.

3. Objective

The specific objective of this procurement is to acquire the professional services on an as required basis to support the work of CBSA in the establishment and integration of the above mentioned key mission-critical foundational services, i.e. SOAPS, MDMS, and ERASS.

It is expected that the Contractor's resources will be used across CBSA. The resources will be involved in the architecture and design, development, configuration, testing, optimization, integration with other related components and systems, deployment, and support and maintenance of the above mentioned foundational services in a complex technical environment using the Crown-owned suite of commercial off-the-shelf (COTS) products.

4. Scope

The scope of work consists of the acquisition of professional services to provide guidance, expertise, deliverables, and assistance to perform the development, deployment, configuration, integration, and post-implementation maintenance support of the architecture components required for SOAPS, MDMS, and ERASS.

On an as and when requested basis, through the issuance of Task Authorizations (TAs), the Contractor must perform the tasks as described in section 7 below.

To realize this delivery within the time constraints, CBSA foresees a requirement for the assistance of professional services, starting from October 2016 until the end of March 2020, in the following domains: (1) architecture, (2) software development and configuration, (3) system analysis, (4) testing services, (5) business analysis, (6) IT Security, and (7) systems-solutions integration.

CBSA plans to iterate the delivery of the above-mentioned services through phases identified in section 5 below: (1) Planning, (2) Building, (3) Verification, (4) Production, (5) On-Boarding, (6) Maintenance. Each phase will include embedded controls and checkpoints and will require the work of professional services for which categories and tasks are identified below in sections 6 and 7. The resources may be required to perform tasks in any or all of the phases. These services need to be delivered in accordance with CBSA approved methodologies and frameworks.

4.1 Out of Scope - End-User Support

The Contractor will not be required to provide End-User Support following post-implementation of the architecture components required for SOAPS, MDMS, and ERASS.

5. Phases

The work delivery of the above-mentioned services will need to be performed iteratively through phases. Each phase has a set of expected deliverables. Note that there may be some overlap in the timing of the phases such that a later phase may begin before the prior phase has completed. Deliverables may include but are not limited to the following:

- 1. Planning Phase System Requirements Specifications (SRS), Architecture and Design Specification (ADS), System Use Cases (SUC), System Requirements Traceability Matrix (S-RTM), high level architecture, preliminary User Interface (UI) screens, and master test plan;
- 2. Building Phase System components and integration, unit, integration and component test plan, development release notes, ADS, S-RTM, Test to System Requirements Traceability Matrix (TS-RTM), implementation schedule;
- 3. Verification Phase Master test plan (fully defined), functional acceptance plan, verification test plan, verification test report, release notes, defects, build book, component and integration documentation, screen captures and hierarchy, ADS, TS-RTM, production implementation schedule;
- 4. Production Phase SRS, comprehensive traceability matrix, master test plan, test reports, ADS, operations release guide, release notes, Service Level Agreements (SLAs), build book;
- 5. On-boarding Phase client engagement plan, technical qualification and assessment, client readiness and development, integration endorsement and testing, production readiness assessment, implementation schedule, SRS, ADS, SUC;
- 6. Maintenance Phase Maintenance system documentation, maintenance component and integration documentation, maintenance performance verification testing, operations services documentation, monitoring and reporting requirements.

6. Resource Categories

The table below identifies the categories of expert resources that CBSA anticipates requiring on an as and when requested basis.

TBIPS Category	Level of Expertise	Area of expertise
	3	Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage
Programmer/Software	3	Specialty in IBM Master Data Management (MDM) - Java development
Developer	3	Specialty in pME (probabilistic Matching Engine) - Matching algorithm development
	3	Specialty in IBM Infosphere Identity Insight (ISII)
	3	Specialty in IBM Global Name Management (GNM)
	3	Specialty in IBM Master Data Management (MDM) Server
Application/Software Architect	3	Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage
	3	Specialty in IBM Infosphere Identity Insight (ISII)
Business System Analyst	3	Specialty in IBM Master Data Management (MDM) - Data Governance.

7. Tasks and Activities

This section describes the categories of expert resources and the basic responsibilities for each that CBSA anticipates will be required to build, integrate, test, and deploy a large-scale integrated SOA, MDM, and ERASS foundation. The Contractor may be required to perform the tasks and produce the deliverables identified, but not limited to, the lists provided below. Each individual Task Authorization (TA) will detail the specific tasks and deliverables to be completed.

7.1 Programmer/Software Developer

The resources identified may be required to participate in any or all phases identified in the Scope section above.

7.1.1 Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Tasks (may include but not limited to the following) -

- Develop DataStage extract, transform, and load (ETL) jobs using the DataStage ETL scripting language to extract source data, transfer data and generate MDM xml requests;
- Develop jobs to extract data from Master Data Management (MDM), and load into CBSA data source;

- Design, develop and test QualityStage name standardization jobs using the QualityStage scripting language based on CBSA name standardization rules provided; and
- Perform integration with the following: IBM Enterprise Service Bus, IBM Integration Bus (ESB-IIB), and MDM.

Deliverables (may include but not limited to the following) -

- Detailed design documents for all customized code and configuration solution components for Extract, Transform, and Load (ETL) jobs using IBM IIS DataStage;
- Detailed design documents for all customized code and configuration solution components for ETL jobs using IBM IIS QualityStage;
- ETL jobs for:
 - o CBSA MDM data ingestion from source databases; and
 - o Loading MDM CBSA entity identification to source system.
- QualityStage jobs for CBSA name standardization; and
- Loading MDM data into MDM downstream systems such as Enterprise Data Warehouse (EDW)
 or Business Intelligence (BI).

7.1.2 Specialty in IBM Master Data Management (MDM) - Java development

Tasks (may include but not limited to the following) -

- Review of MDM detail design document in order to confirm or identify implementation approach;
- Design and develop IBM MDM server solution components including web service customizations and user interface customizations using Java technologies;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Document the processes and steps needed to build, administer and support all tests, development and production environments;
- Perform MDM knowledge transfer to CBSA application support team;
- Perform the activities required for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Modify service or solution design, as necessary;
- Confirm continued operation of integrated service or solution;
- Integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage; and
- Package fixed or enhanced solution for redeployment.

Deliverables (may include but not limited to the following) –

System requirements, System Use Cases;

- Application code, including customizations;
- Updated detailed design documents;
- Developed, integrated and tested MDM component working with an approved interchange data format: and
- MDM server solution component packaging and promotion strategy document.

7.1.3 Specialty in pME (probabilistic Matching Engine) - Matching algorithm development

Tasks (may include but not limited to the following) –

- Lead business requirement gathering on party matching scenarios;
- Design and implement IBM MDM server business rule configurations including pME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM pME matching algorithm based on business requirements;
- Review matching result with business team;
- Support MDM initial load and incremental process; and
- MDM pME matching algorithm developer will be provided with CBSA data source to MDM data mapping document, and subset of CBSA production source data.

Deliverables (may include but not limited to the following) -

- System Use Cases, system requirements;
- Detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components;
- High Level Design document for pME rules, duplicate suspect processing and data survivorship rules;
- Application code, including customizations;
- pME configuration;
- Unit, integration and system test plan documents and customized code, and configuration solution components for IBM InfoSphere MDM Server related solution components;
- IBM InfoSphere MDM server solution component packaging and promotion strategy document;
- Fully configured and tested probability Matching Engine (pME) working with an approved interchange data format and matching business requirements; and
- Other analysis, advice, and guidance as required.

7.1.4 Specialty in IBM Infosphere Identity Insight (ISII)

Tasks (may include but not limited to the following) -

- Package Service solution for deployment;
- Perform initial and ongoing data ingestion;
- Design and develop integration points with new data sources;
- Configure deliverables to integrate into CBSA testing environment;

- Tune performance of solution (including data review and validation;
- Tune solution to meet non-functional requirements;
- Conduct functional and non-functional testing in CBSA environment; and
- Conduct integration testing with CBSA applications and other components include ESB-IIB,
 MDM, IIS DataStage and QualityStage.

Deliverables (may include but not limited to the following) -

- Application code, including customizations;
- Detailed design documents for all customized code and configuration; and
- System requirements and system use cases.

7.1.5 Specialty in IBM Global Name Management (GNM)

Tasks (may include but not limited to the following) -

- Work collaboratively in a multi-disciplinary project environment contributing significant IBM Global Name Management (GNM) solution expertise;
- Contribute to name standardization rules;
- Document and analyze complex business requirements, business rules, System Use Cases and system requirements;
- Design and develop IBM GNM solution components including web service customizations and user interface customizations using Java technologies;
- Design and develop system integration components to integrate the IBM GNM solution with CBSA business systems and third party reference data sources; and
- Contribute to planning and execution of performance testing of IBM GNM solution.

Deliverables (may include but not limited to the following) -

- System Use Cases, system requirements;
- Detailed design documents for all customized code and configurations for IBM GNM related solution components;
- High level design document for name standardization rules;
- Application code, including customizations;
- Unit, integration and system test plan documents and customized code and configuration solution components for IBM GNM related solution components;
- Developed, integrated and tested GNM component working with an approved interchange data format; and
- IBM GNM component packaging and promotion strategy document.

7.2 Application/Software Architect

7.2.1 Specialty in IBM Master Data Management (MDM) Server

Tasks (may include but not limited to the following) -

- Provide assistance and guidance to install, configure, and test MDM products to all CBSA environments and document;
- Assist in MDM infrastructure design;
- Review MDM Server components hardware sizing;
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for IBM InfoSphere MDM Server environment;
- Perform knowledge transfer to CBSA application support team;
- Provide best practices on IBM MDM implementation;
- Assist on MDM and other CBSA Data sources data mapping;
- Review MDM data mapping and MDM business functional requirement;
- Review CBSA non-functional requirement;
- Provide MDM high level design and detail design;
- Provide assistance and guidance to the MDM development team;
- Assist the test coordinator(s) with preparing test cases and providing input to test plans to validate final designs;
- Assist the project manager for resource planning;
- MDM security frameworks and integration with CBSA security policy and identity stores;
- Provide guidance for MDM performance tuning; and
- Integration with ESB-IIB, IIS and ISII.

Deliverables (may include but not limited to the following) -

- Design of MDM environment integrated with IIS server in CBSA data center;
- Installation scripts to install MDM Server on different environments;
- Availability, fail-over and recoverability strategies;
- Step by step installation documentation with screenshots;
- MDM solution high level design document; and
- MDM components detailed design document.

7.2.2 Specialty in IBM InfoSphere Information Server (IIS) – DataStage and Quality Stage

Tasks (may include but not limited to the following) -

- Review CBSA IIS server installation topology;
- Provide assistance and guidance to install and configure information server products for CBSA including WebSphere Information Services Director of Information Server;
- Ensure proper DataStage and QualityStage project version control is in place;
- Provide technical expertise to install and configure InfoSphere for the integration of IIS components;
- IIS security frameworks and integration with CBSA security policy and identity stores; and
- Provide assistance and guidance to performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server environment.

Deliverables (may include but not limited to the following) -

- Design documentation for IIS server HA environment in CBSA data center, integrated with MDM server; and
- IIS server step by step installation documentation with screenshots.

7.2.3 Specialty in IBM Infosphere Identity Insight (ISII)

Tasks (may include but not limited to the following) -

- As an IBM ISII subject matter expert (SME), provide technical expertise to install and configure of ISII COTS product;
- Prepare and load ISII repository data and setup ongoing data ingestion;
- Support business and technical teams by providing expertise and advice regarding the ISII product usage to meet the business functional requirements;
- Provide assistance on integration with CBSA applications and other components including ESB-IIB, IIS DataStage and QualityStage;
- Provide expertise in the integration of ISII with IBM MDM system;
- ISII security frameworks and integration with CBSA security policy and identity stores;
- Transfer knowledge through documentation and solution design artifacts; and
- Configure matching rules based on various business requirements.

Deliverables (may include but not limited to the following) –

- Technical work breakdown and execution sequence;
- Design options and recommendations;
- Input to MDM standards, procedures, and data governance;
- Development and implementation strategy; and
- Written analysis, strategic advice, and guidance as required.

7.3 Business System Analyst

The resources identified may be required to participate, on demand, in any or all phases identified in the Scope section above.

7.3.1 Specialty in IBM Master Data Management (MDM) - Data Governance

Tasks (may include but not limited to the following) -

- Responsible for the establishment, maintenance and execution of master data policies and workflow management, proactively maintain the integrity and accuracy of CBSA master data;
- Establish master data policies and procedures to ensure data meets defined quality targets;
- Understand CBSA enterprise data model and processes to successfully define party attributes within master data databases;
- Establish the policies for setting up, maintaining, validating and cleansing CBSA party data;
- Maintain changes to data process maps, document new processes and support ongoing audit requirement;
- Act as subject matter expert and support CBSA projects to ensure that processes meet data policies and procedures best practices;
- Assist senior manager in defining guidelines and KPI for all master data parameters, and build and maintain a data governance framework;
- Assist MDM teams in the creation of business rules, entities, party attributes;
- Understand CBSA application data model and MDM data model;
- Perform CBSA master data maintenance;
- Resolve duplicate suspect parties in MDM database; and
- Identify and resolve data quality issues.

Deliverables (may include but not limited to the following) -

- CBSA master data governance business requirement documents;
- CBSA master data governance business process and rules documents;
- MDM data maintenance report;
- MDM suspect duplication resolution report; and
- MDM data quality issue and solution report.

8. Constraints

Professional resources procured through this vehicle will be expected to adhere to the CBSA operating model, following CBSA standards and processes to accomplish their project work. The Contractor's resources will be required to abide by architectural design documents which have been developed and approved prior to the commencement of their services such as Release Proposal, Architecture Design Specification, and System Use Cases. CBSA will provide copies of all templates and policies applicable after contract award.

The professional services resources will be integrated into and collaborating with various CBSA responsibility centers working alongside CBSA employees and other professional contracted resources of varying disciplinary backgrounds.

Knowledge transfer, application code developed for CBSA, and documentation as necessary is expected from all professional resources hired through this vehicle and is required to ensure that CBSA personnel have the knowledge and mechanisms to independently support and sustain the infrastructure deployed through this contract.

Both software and hardware specifications identified in Section 12.2 and 12.3 respectively are provided for information purposes only and may be subject to change. Additional hardware and software components will be included in the applicable Task Authorizations.

Each Task Authorization will identify any additional constraints if applicable.

9. Client Support

CBSA will ensure that the Contractor's resource is provided with:

- · Security access to the building; and
- Access to relevant project documentation; and
- Workspace and CBSA equipment.

10. Work Location

The specific work location will be identified in each Task Authorization. Unless specified otherwise, the work location will be a CBSA office in the National Capital Region (NCR).

11. Language Requirement

The resources must be able to perform the work and provide any deliverables in English. Each Task Authorization will identify the specific language requirements.

12. Technical Environment

The Canada Revenue Agency (CRA) and Shared Services Canada (SSC) currently provide infrastructure services to CBSA.

12.1 CBSA High-Availability (HA) Environment

Critical CBSA business applications require 24-7 availability and dual data center failover. As such, the computing environment including both infrastructure and software applications must be well integrated in ensuring critical CBSA systems are available at all time. This requires an application ability to mask both scheduled and un-scheduled outages. If required, CBSA standard Relational Database Management Systems (RDBMS) are available to store, report and retrieve enterprise authorized data on the CBSA enterprise platforms as defined by the CBSA technical platform document.

The integration of software applications in a highly available environment, paramount to support the model for the SOAPS, may include, but is not limited to, the following technologies:

- Clustered or redundant Web technologies: WebSphere, and Apache.
- Clustered or redundant DBRMS: DB2 with PureScale.
- Redundant LDAP, SiteMinder, and Identity Manager.
- Load balancer technologies using Apache servers and network appliances.
- Cognos SPSS
- SSA-Name3

12.2 Software Components

CBSA owns all licenses to use the IBM products found in the table below:

Architecture Component	сотѕ	Version and Platform	DB and Platform	Description
Master Data Management (MDM)	IBM Master Data Management (MDM)	11.5 on Linux	DB2 on Linux	MDM provides maintenance and search capabilities for mastered businesses and people
Global Name Management (GNM) Data Preparation	IBM Global Name Management (GNM) IBM DataStage (DS) and	5.0 or above IIS 11.5	N.A. DB2 on	Name structure recognition with cultural backgrounds. DS and QS extract data from
and Loading Service (DPLS)	QualityStage (QS)		Linux	data sources, cleanses, standardizes and loads it into the target database
Business Process Management (BPM)	IBM Business Process Management (BPM) Advanced	8.5.6 or above on Linux	DB2 on Linux	BPM provides business process automation.

Enterprise Service Bus (ESB)	IBM IIB	10 or above	DB2 on Linux	IBM Integration Bus connects applications together. It routes, transforms, and enriches messages from one location to any other location.
Business Rules Management Service (BRMS) and Event Management Service (EMS)	IBM ODM Advanced IBM ODM Standard	8.7 or above	DB2 on Linux	ODM manages the business decision logic that is used by operational systems
Relationship Resolution Service (RRS)	IBM InfoSphere Identity Insight (ISII)	8.1.0 or above	DB2 on Linux	IBM InfoSphere Identity Insight resolves inconsistent, ambiguous identity records into comprehensive entities across multiple data sets
IBM SOA Integrated Development tools	IBM integration Designer, IBM Integration Explorer, IBM Business Process Designer, IBM ODM Rule Designer, IBM ODM Decision Server Event Designer	Various	DB2 on Linux	Set of tool to support the development and implementation of an integrated SOA, MDM, and ERASS foundation.

12.3 Hardware specification

The following table provides the hardware specifications in anticipation of the integrated SOA, MDM, and ERASS foundation implementation and delivery:

Component	Hardware	Specifications	Units
	Server specification	Xeon ES-2650 2x8 with 70 PVU score	
		Blade (Without VM)	36
	Servers	Blade (With VM)	30
MDM	Chassis		6
	SAN Storage	Primary Disk capacity (Gb)	15862.50 (gb)
		Mirrored capacity (Gb)	15862.50 (gb)
		SAN ports	
504	Servers	Blade 32 cores	8.5625
SOA	Chassis		4

Appendix A - Non-Functional Requirements

Volumetric – expected peak number of transactions per second

The following table illustrates the expected volumes (peak number of transactions per second) that are associated with the functioning services:

Component		Year				
	Service	2016	2017	2018	2019	2020
SOA	ESB	36.54	76.37	77.89	79.45	81.04
	BPM	19.21	19.60	19.99	20.39	20.80
	BRMS	27.35	66.99	68.33	69.70	71.09
	EMS	0.42	0.81	0.83	0.85	0.86
ERASS	ERSS	35.76	36.52	37.30	38.10	38.92

Volumetric - Volumes

Component	nent COTS Demand Unit		Release 1	Release 2
84584	IDA A AADA A	Created businesses during initial load	6,000,000	N.A.
MDM	IBM MDM	Peak transactions per second	27	49
	IBM DataStage	Peak transactions per second	27	49
DPLS	IBM QualityStage or AVI	Transactions per second	27	49

Volumetric - ID resolution and reconciliation RP

Reconciliation and identity resolution is tightly aligned with Master Data Management (MDM) services for initial load, and coupled with query functionality for ongoing operations.

- Created people during initial load 63,000,000
- Created new people in 5 years after release 50,000,000

Availability

- The SOA enablement solution system must be highly available for 24-7 service with planned outages of 2 hours per month or 99.9+% operational ability.
- ERASS must be highly available for 24-7 service with 99.5% operational ability.
- MDM must be available 24 hours per day, 7 days per week, and 365 days per year.

Appendix B – Acronyms

Acronym	Description
ADS	Architecture and Design Specification
BI	Business Intelligence
BPMN	Business Process Modeling Notation
BUC	Business Use Cases
CBSA	Canada Border Services Agency
COTS	Custom Off The Shelf
CRA	Canada Revenue Agency
DPLS	Data Preparation and Loading Service
EDW	Enterprise Data Warehouse
EFSS	Entity Fuzzy Search Service
ERASS	Enterprise Risk Assessment Support Services
ERSS	Entity Resolution and Search Service
ESB	Enterprise Service Bus
ETL	Extract, Transform, and Load
GNM	Global Name Management
GoC	Government of Canada
GC SOA	Government of Canada Service Oriented Architecture
HA	High Availability
IIB	IBM Integration Bus
IIS	InfoSphere Information Server
ISII	InfoSphere Identity Insight
ISTB	Information, Science and Technology Branch
KPI	Key Performance Indicator
LDAP	Lightweight Directory Access Protocol
LOB	Line of Business
MDM	Master Data Management
MDMS	Master Data Management Services
NCR	National Capital Region
ODM	Operational Decision Management
pME	probabilistic Matching Engine
RDBMS	Relational Database Management System
REST	Representational State Transfer
ROI	Return on Investment
RP	Release Proposal
RRS	Relationship Resolution Service
SAN	Storage Area Network
SCM	Software Configuration Management
SLA	Service Level Agreement
SME	Subject Matter Expert
SOA	Service Oriented Architecture
SOAP	Simple Object Access Protocol
SOAPS	Service Oriented Architecture Platform Services
SRS	System requirements specification

S-RTM	System Requirements Traceability Matrix
SUC	System Use Cases
SSC	Shared Services Canada
TA	Task Authorization
TS-RTM	Test to System Requirements Traceability Matrix
UML	Unified Modeling Language

Appendix C – Glossary

Acronym or Term	Description
ADS	An Architecture and Design Specification (ADS) document contains architecture and design information. The Architecture definition is contained in Parts 1 and 2; and the Design is captured in Parts 3 and 4.
ВРМ	Business process management (BPM) is a discipline that uses various methods to discover, model, analyze, measure, improve, and optimize business processes. A business process coordinates the behavior of people, systems, information, and things to produce business outcomes in support of a business strategy.
Deployment	Deployment services support the implementation and rollout of new applications or infrastructure. Activities may include hardware or software procurement, configuration, tuning, staging, installation and interoperability testing.
ETL	 ETL is short for extract, transform, and load, three database functions that are combined into one tool to pull data out of one database and place it into another database. Extract is the process of reading data from a database. Transform is the process of converting the extracted data from its previous form into the form it needs to be in so that it can be placed into another database. Transformation occurs by using rules or lookup tables or by combining the data with other data. Load is the process of writing the data into the target database.
Implementation	A term used to designate the phases of the system lifecycle that are responsible for the delivery of an information system. It includes the initiation, development and acquisition, and integration and installation phases of the system lifecycle, but excludes the operations and maintenance phase and the disposal phase.
Master Data Management	 Master data management (MDM) of product data solutions are software products that: Support the global identification, linking and synchronization of product information across heterogeneous data sources through semantic reconciliation of master data Create and manage a central, persisted system of record or index of record for master data Enable delivery of a single product view to all stakeholders, in support of various business benefits Support ongoing master data stewardship and governance requirements through workflow-based monitoring and corrective action techniques
Project implementation Relationship	Project implementation or execution is directing, managing, performing and accomplishing the project work, providing the deliverables, and providing work performance information. A system that provides services to analyze identities and their relationship for the purpose of froud detection and rick assessment.
analytical tool SOA	of fraud detection and risk assessment. SOA is an approach for developing enterprise information systems solutions based on services. SOA is an industry best practice, which promotes open architecture. SOA aims to align information system services with business processes and data to enable re-use of business level functions. SOA is a foundation architecture that will influence systems development across the Agency's line of business portfolios.

GC SOA	The GC Service Oriented Architecture (GC SOA) is a comprehensive reference model that guides the use and adoption of Service Oriented Architectures (SOA) across the Government of Canada.
System integration	It ensures that the various segments and elements of the total system can interface with each other and with the external environment. [Thayer & Thayer European Perspective 1993]

Appendix D - Tasking Assessment Procedure

- Where a requirement for a specific task is identified, a draft Task Authorization Form (TA Form) as attached at Appendix E to Annex A will be provided to the Contractor in accordance with the allocation methodology stated in the Contract Article titled "Allocation of Task Authorizations". Once a draft TA Form is received, the Contractor must submit to the Technical Authority a quotation of rates to supply the requested Resource Categories based on the information identified in the TA Form. The quotation must be signed and submitted to Canada within the time for response identified in the TA Form. The Contractor will be given a minimum of 3 working days turnaround time to submit a quotation.
- 2. For each proposed resource the Contractor must supply a résumé, the requested security clearance information and must complete the Response Tables at Appendix F of Annex A applicable to the Resource Categories identified in the draft TA. The same individual must not be proposed for more than one Resource Category. The résumés must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to the proposed resources:
 - (i) Proposed resources may be employees of the Contractor or employees of a subcontractor, or these individuals may be independent contractors to whom the Contractor would subcontract a portion of the Work. (Refer to Appendix G to Annex A, Certifications).
 - (ii) For educational requirements for a particular degree, designation or certificate, Canada will only consider educational programmes that were successfully completed by the resource before the date the draft TA was first issued to the Contractor.
 - (iii) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of draft TA issuance and must continue, where applicable, to be a member in good standing of the profession or membership throughout the assessment period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this Contract or if the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued.
 - (iv) For work experience, Canada will not consider experience gained as part of an educational programme, except for experience gained through a formal co-operative programme at a post-secondary institution.
 - (v) For any requirements that specify a particular time period (e.g., 2 years) of work experience, Canada will disregard any information about experience if the résumé does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). Canada will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
 - (vi) A résumé must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. Only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the requirement, or reusing the same wording as the TA Form, will not be considered "demonstrated" for the purposes of the assessment. The Contractor should provide complete details as to where, when, month and year, and how, through which activities or responsibilities, the stated qualifications and experience were obtained. In situations in which a proposed resource worked at the same time on more than one

project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.

- 3. The qualifications and experience of the proposed resources will be assessed against the requirements set out in Appendix F to Annex A to determine each proposed resource's compliance with the mandatory and rated criteria. Canada may request proof of successful completion of formal training, as well as reference information. Canada may conduct reference checks to verify the accuracy of the information provided. If reference checks are done, they will be conducted in writing by e-mail (unless the contact at the reference is only available by telephone). Canada will not assess any points or consider a mandatory criterion met unless the response is received within 5 working days. On the third working day after sending out the emails, if Canada has not received a response, Canada will notify the Contractor by e-mail, to allow the Contractor to contact its reference directly to ensure that it responds to Canada within 5 working days. Wherever information provided by a reference differs from the information supplied by the Contractor, the information supplied by the reference will be the information assessed. Points will not be allocated or a mandatory criteria considered as met if the reference customer is not a customer of the Contractor itself (for example, the customer cannot be the customer of an affiliate of the Contractor). Nor will points be allocated or a mandatory criteria considered as met if the customer is itself an affiliate or other entity that does not deal at arm's length with the Contractor. Crown references will be accepted.
- 4. During the assessment of the resources proposed, should the references for two or more resources required under that TA either be unavailable or fail to substantiate the required qualifications of the proposed resources to perform the required services, the Contracting Authority may find the quotation to be non-responsive.
- Only quotations that meet all of the mandatory criteria will be considered for assessment of the point rated criteria. Each resource proposed must attain the required minimum score for the point rated criteria for the applicable Resource Category. If the minimum score for any proposed resource is less than what is required, the Contractor's quotation will be found to be non-responsive.
- 6. Once the quotation has been accepted by the Technical Authority, the TA Form will be signed by Canada and provided to the Contractor for signature. The TA Form must be appropriately signed by Canada prior to commencement of any work. The Contractor must not commence work until a validly issued TA Form (the Task Authorization) has been received, and any work performed in its absence is done at the Contractor's own risk.

Appendix E – Task Authorization Form

(SEE ATTACHED HERETO)

Appendix F – Resources Assessment Criteria and Response Table

(SEE ATTACHED HERETO)

Appendix G – Certifications at the TA Stage

The following Certifications are to be used, as applicable. If they apply, they must be signed and attached to the Contractor's quotation when it is submitted to Canada.

1.	CERTIFICATION OF EDUCATION AND E	XPERIENCE
propo achie Furth	sed for completing the subject work, particul vements, experience and work history, has b	een verified by the Contractor to be true and accurate. dividual proposed by the Contractor for the requirement
Print	name of authorized individual & sign above	Date
2.	CERTIFICATION OF AVAILABILITY OF F	ERSONNEL
the per	ersons proposed in the quotation will be avail nable time from the date of issuance of the v	ed to provide services under this Task Authorization, able to commence performance of the work within a alid Task Authorization, or within the time specified in the work in relation to the fulfillment of the requirement.
Print	name of authorized individual & sign above	Date
3.	CERTIFICATION OF STATUS OF PERSO	DNNEL
certifi be pe Perio signe Failur	es that it has permission from that individual rformed under this TA and to submit his or he the Contractor must, upon request from the by the individual, of the permission that wa	is not an employee of the Contractor, the Contractor to propose his or her services in relation to the Work to er résumé to Canada. At any time during the Contract Contracting Authority, provide the written confirmation, is given to the Contractor of his or her availability. Idefault under the Contract in accordance with the
Print	name of authorized individual & sign above	Date
4.	CERTIFICATION OF LANGUAGE - ENGL	ISH
are flu		e(s) in response to this draft Task Authorization is or ust be able to communicate orally and in writing in rrors.
——— Print	name of authorized individual & sign above	 Date

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTI	E 1 (complété par le	e Responsable technique / Chargé	du projet)			
A. General Information / Informations généra	ales					
Contract Number / Numéro du contrat :						
Contractor Name / Nom du Contracteur :						
B. For Amendments Only / Aux fins de modif	ication seule	<u>ment</u>				
Amendment No. / Nº de la modification :						
Reason for the Amendment / Raison pour la modifica	ation:					
C. TA Requirements / Exigences relatives à l'A	<u>AT</u>					
Required Resource(s) / Ressource(s) requise(s)				e / Profile Required Level(s) of Security / Niveau(x) de sécurité requis hitiale :		
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique			
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des tra	avaux (tâches, livrables	s, rapports, etc.)			
Period of Services / Période de service:	rat: cur:					
Initial Start Date / Date de début initiale :		Initial End Da	te / Date de fin initiale :			
Extented End Date (See Reason for the Amendment)	/ Date de fin pr	olongée (voir Raison p	our la modification) :			
Doption To Extend Initial End Date / Option pour p	orolonger la dat	e de fin initiale				
Travel Requirement(s) / Exigence(s) de voyage :	Nom du Contracteur: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / tâches (AT): Pengagement: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Code d'émission: Response required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Reponse required by / Réponse requise par: (TA) No. / N° Commitment No. / N° de Financial Coding / Reponse required by / Réponse requ					
Work Location(s) / Lieu(x) de travail :						
PART 2 (completed by the Contractor and/or the Technical/Project Auti	hority) / PART	IE 2 (complété par le Contracto	eur et/ou le Responsable technique / Ch.	argé du projet)		
A. Contractor Resource(s) / Ressource(s) du C	Contracteur					

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Cate	gory / Catégor	ie	Level / Niveau	_	istic Profile / linguistique	Level of Securit de sécurité	ry / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
										+
B. Estimated Cost / Coût esti	matif									
Category / Catégorie		Level / Niveau		n Rate / 1 urnalier	āux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
+										
					E	stimated Cost	t / Coût estimatif	F		
	Total	Estimated Trav	vel and Living	g Cost / C	oût tota	l estimatif de	voyage et de vie	1	\$0.00	•
Taxe % applied / % de taxe	s appliquées				Applic	able Taxes / T	axes applicables		\$0.00	
				Tota	al Estima	ited Cost / Co	ût total estimatif	f	\$0.00	
PART 3 - TA APPROVAL	BY CANA	DA / PART	IE 3 - API	PROBA	TION	DE L'AT P	AR LE CANA	ADA		
By signing this TA, the authorized client aut certify(ies) that the content of this TA is in a							le client autorisé et/o e AT est conforme au:		ontractante de TPSGC lu contrat.	
The client's authorization limit is \$300,000.0 (including GST/HST) is in excess of this limit forwarded to the PWGSC Contracting Author	, the TA must be	signed by the auth		d (inclua	nt la TPS/T		e limite, l'AT doit être		le l'AT et ses modificati client autorisé et trans	
Name of Authorized Client / Nom du clier	nt autorisé D	ate			of Contrac ité contrac	ting Authority / N tante	lom de	Date		
Signature				Signat	ure					
PART 4 - CONTRACTOR	SIGNATU	RE / PART	IE 4 - SIGI	NATUR	RE DU	CONTRAC	TEUR			
Name and Title of individual authorized t de la personne autorisée à signer au nom			Nom et titre	Sign	ature			Date		

Appendix F to Annex A

Resources Assessment Criteria and Response Tables

To facilitate resource assessment, the Contractor must prepare and submit a response to a draft Task Authorization using the tables provided in this Appendix. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that the assessor can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

1.0 Mandatory Resource Assessment Criteria

The experience required for a Mandatory Resource Requirement must be demonstrated through one or multiple referenced projects and each referenced project must have a minimum duration of three (3) months in order to be accepted.

1.1 Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage has:

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:					
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.					
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.					
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 					
	 Correct program errors by revising instructions or altering the sequence of operations. 					
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 					

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Information Server (IIS) – DataStage and QualityStage has:

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing solutions using IIS DataStage or QualityStage to prepare, cleanse, and standardize data for Master Data Management (MDM) consumption in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).					

1.2 Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development has:

Criteria	Mandatory Requirement	Bidder's response				
		INSERT PAGE # OF RESUME	Met	Not Met		
M.1	at least ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:					
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.					
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.					
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 					
	Correct program errors by revising instructions or altering the sequence of operations.					
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 					

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Master Data Management (MDM) – Java Development has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a Java programmer/software developer developing IBM Master Data Management (MDM)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

1.3 Programmer/Software Developer – Speciality in pME (probabilistic Matching Engine) – Matching algorithm development

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development			
Name of proposed Resource:			
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development has:			

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	a minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.			
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.			
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 			
	Correct program errors by revising instructions or altering the sequence of operations.			
	Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference.			

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM pME (probabilistic Matching Engine) – Matching algorithm development has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Master Data Management (MDM)* based solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).			
	*Or previous versions or instances.			

1.4 Programmer/Software Developer – Specialty in IBM InfoSphere Identity Insight (ISII)

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Identity Insight (ISII)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM InfoSphere Identity Insight (ISII) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:				
	 Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results. Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs. Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. Correct program errors by revising instructions or altering the sequence of operations. Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 				
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM InfoSphere Identity Insight (ISII)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				
	*Or previous versions or instances.				

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1.5 Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Programmer/Software Developer –

Criteria	ria Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a programmer/software developer:			
	Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results.			
	Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs.			
	 Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel. 			
	 Correct program errors by revising instructions or altering the sequence of operations. 			
	 Perform unit testing, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference. 			

Experience and Expertise of the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM)
Name of proposed Resource:

The Bidder MUST demonstrate that the Proposed Programmer/Software Developer – Specialty in IBM Global Name Management (GNM) has:

Criteria	Mandatory Requirement	Bidder's response			
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as a programmer/software developer developing IBM Global Name Manager (GNM) solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				

1.6 Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all or key aspects of technology solutions.			
	Monitor industry trends to ensure that solutions fit with government and industry directions for technology.			
	Analyse functional requirements to identify information, procedures and decision flows.			
	Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary.			
	Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.			
	Define input and output sources, including detailed plan for technical design phase.			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

Criteria	Mandatory Requirement	Bidder's response		
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	a minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.			
	*Or previous versions or instances.			

1.7 Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

	ce and Expertise of the Proposed Application re Information Server (IIS) DataStage and Qua		Specialt	y in IBM		
Name of	proposed Resource:					
	The Bidder MUST demonstrate that the Proposed Application/Software Architect – Specialty in IBM Infosphere Information Server (IIS) DataStage and QualityStage has:					
Criteria	Mandatory Requirement	Bidder's re	esponse)		
		INSERT PAGE # OF RESUME	Met	Not Met		
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:					
	Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.					
	Identify the policies and requirements that drive out a particular solution.					
	Analyse and evaluate alternative technology solutions to meet business problems.					
	Ensures the integration of all or key aspects of technology solutions.					
	Monitor industry trends to ensure that solutions fit with government and industry directions for technology.					
	Analyse functional requirements to identify information, procedures and decision flows.					
	 Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary. 					
	Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems.					
	Define input and output sources, including detailed plan for technical design phase					

 Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.

Infosphe	ce and Expertise of the Proposed Application re Information Server (IIS) DataStage and Qua		Specialt	y in IBM
Name of	proposed Resource:			
	er MUST demonstrate that the Proposed Appl fosphere Information Server (IIS) DataStage a		itect – S	Specialty
Criteria	Mandatory Requirement	Bidder's re	esponse)
		INSERT PAGE # OF RESUME	Met	Not Met
M.2	A minimum of three (3) years of experience, within the last ten (10) years, working as an application/software architect, on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Information Server DataStage or QualityStage large scale (project value of \$6 million or greater) solution implementation at an enterprise level with			

multiple stakeholders (greater than 2).

1.8 Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)

	e and Expertise of the Proposed Application e Identity Insight (ISII)	/Software Architect –	Specialty ir	ı IBM
Name of p	proposed Resource:			
	er MUST demonstrate that the Proposed Appl oSphere Identity Insight (ISII) has:	ication/Software Arch	itect – Spe	cialty
Criteria	Mandatory Requirement	Bidder's re	esponse	
		INSERT PAGE # OF RESUME	Met N	lot Met
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as an application/software architect:			
	Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.			
	Identify the policies and requirements that drive out a particular solution.			
	Analyse and evaluate alternative technology solutions to meet business problems.			
	Ensures the integration of all or key aspects of technology solutions.			
	 Monitor industry trends to ensure that solutions fit with government and industry directions for technology. 			
	Analyse functional requirements to identify information, procedures and decision flows.			
	 Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary. 			
	 Define and document interfaces of manual to automated operations within application sub- systems, to external systems and between new and existing systems. 			
	Define input and output sources, including detailed plan for technical design phase.			
	Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming			

conventions, etc.

InfoSphei	Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) Name of proposed Resource:				
	er MUST demonstrate that the Proposed Appl oSphere Identity Insight (ISII) has:	ication/Software Arch	itect – S	ipecialty	
Criteria	Mandatory Requirement	Bidder's re	esponse)	
		INSERT PAGE # OF RESUME	Met	Not Met	
M.2	A minimum of two (2) years of experience, within the last eight (8) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Identity Insight (ISII)* large scale project (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).				

*Or previous versions or instances.

1.9 Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance

Experience and Expertise of the Proposed Business Systems Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance
Name of proposed Resource:
The Bidder MUST demonstrate that the Proposed Business Systems Analyst – Specialty

in IBM Master Data Management (MDM) - Data Governance has:

Criteria Management Pequirement Ridder's response

Criteria	Mandatory Requirement	Bidder's respons	esponse	е	
		INSERT PAGE # OF RESUME	Met	Not Met	
M.1	A minimum of ten (10) years of experience, within the last twenty (20) years, performing the following tasks as a business system analyst:				
	 Establish Master Data policies and procedures to ensure data meets defined quality targets; 				
	 Establish the policies for setting up, maintaining, validating and cleansing party data; 				
	 Maintain changes to data process maps, document new processes and support ongoing audit requirement; 				
	 Act as subject matter expert and support projects to ensure that processes meet data policies and procedures best practices; 				
	 Assist teams in the creation of business rules, entities, party attributes; 				
	 Evaluate existing procedures and methods, identify and document items such as database content, structure, application subsystems, and develop data dictionary; 				
	Review and analyse application data model and MDM data model;				
	Identify and resolve data quality issues				
M.2	A minimum of three (3) years of experience, within the last eight (8) years, working as a business system analyst responsible for the Data Governance of a large scale MDM solution implementation (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).				

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2.0 Point-Rated Resource Assessment Criteria:

The experience required for a Mandatory Resource Requirement should be demonstrated through one or multiple referenced projects and each referenced project should have a minimum duration of three (3) months in order to be accepted.

2.1 Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage has:	

			BIDDER'S RESI	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience, within the last ten (10) years, working as an programmer/software developer developing solutions using IIS DataStage or QualityStage to prepare, cleanse, and standardize data for Master Data Management (MDM) consumption in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* component that required an integration with one or more of the following products: • IBM Operational Decision Manager (ODM)* Standard or Advance • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management (MDM)* • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)* Advanced	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with an ESB component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		
	Minimum points required	21		

2.2 Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a Java programmer/software developer developing IBM Master Data Management (MDM)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	
	*Or previous versions or instances			

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) – Java Development has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with a Master Data Management (MDM)* component with integration of one or more of the following products: • IBM Enterprise Service Bus (ESB)* • IBM DataStage or QualityStage	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
R.3	*Or previous versions or instances Experience, within the last ten (10) years, working as a programmer/software developer on projects with an MDM component for a government client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		
	Minimum points required	21		

2.3 Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine)

– Matching algorithm development

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development has:

			Bidder's Response	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	Experience, within the last ten (10) years, working as a programmer/software developer configuring the probabilistic and deterministic engines within an IBM Master Data Management (MDM)* solution implementation, in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	*Or previous versions or instances.			

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) – Matching algorithm development has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on a large scale project (project value of \$6 million or greater) with an MDM* component with integration of one or more of the following products: • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)* • IBM InfoSphere Information Server DataStage or QualityStage	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
R.3	*Or previous versions or instances. Experience, within the last ten (10) years, working as a programmer/software developer on projects with an MDM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		•
	Minimum points required	21		

2.4 Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)	
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII) has:	

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE #
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM InfoSphere Identity Insight (ISII)* solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2). *Or previous versions or instances.	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII)
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Infosphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on large scale projects (project value of \$6 million or greater) with an IBM InfoSphere Identity Insight (ISII)* component with integration of one or more of the following products: • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM Integration Service Bus (IIB) – Enterprise Service Bus (ESB)* • IBM Master Data Management(MDM)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a relationship analytical tool for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		.1
	Minimum points required	21		

2.5 Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer -

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as a programmer/software developer developing IBM Global Name Manager (GNM) solutions, aligned with a Service Oriented Architecture (SOA), in large scale projects (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, within the last ten (10) years, working as a programmer/software developer on a large scale project or initiative (value of \$10 million or greater) with a GNM component with integration of one or more of the following products: • IBM Operational Decision Manager (ODM)* Standard or Advanced • IBM InfoSphere Identity Insight (ISII)* • IBM Master Data Management (MDM)* • IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)* • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM)	
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Programmer/Software Developer - Specialty in IBM Global Name Management (GNM) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.3	Experience, within the last ten (10) years, working as a programmer/software developer on projects with a Global Name Management (GNM) component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	35		
	Minimum points required	21		

2.6 Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server

xperience and Expertise of the Proposed Application/Software Architect laster Data Management (MDM) Server	– Specialty in IBM
Name of proposed Resource:	
he Bidder SHOULD demonstrate that the Proposed Application/Software pecialty in IBM Master Data Management (MDM) Server has:	Architect –

RATED CRITERIA	POINTS		+
	Max	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	
	last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM Master Data Management (MDM)* large scale (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2) with 20 million records or more.

Experience and Expertise of t	he Proposed Application/Software Architect – Specialty in IBM
Master Data Management (MD	M) Server
	•
Name of proposed Resource	:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM MDM* with one or more of the following IBM products: • IBM Business Process Management (BPM)* Advanced • IBM IIS* – DataStage or Quality Stage • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	*Or previous versions or instances.			

Experience a	nd Expertise	of the Propose	d Application	n/Software /	Architect –	Specialty in IBM
Master Data I	Management ((MDM) Server				

Name of proposed Resource	
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The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.3	Experience, as an application/software architect, within the last ten (10) years, in the development of security requirements* of an IBM MDM** implementation that required integration with one or more of the following COTS: • IBM Operational Decision Manager (ODM)** Standard or Advanced • IBM InfoSphere Identity Insight (ISII)** • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** • IBM Global Name Manager (GNM) • IBM InfoSphere Information Server DataStage or QualityStage • IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of MDM with other products part of a solution and alignment with security frameworks, security policies, and guidelines. **Or previous versions or instances.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	Or previous versions or instances.			

Experience and Expertise of the Proposed Application/Software Architect – S Master Data Management (MDM) Server	Specialty in IBM
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM Master Data Management (MDM) Server has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with an MDM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.7 Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

Experience and Expertise of the Proposed Application/Software Architect – Specia InfoSphere Information Server (IIS) DataStage and QualityStage	Ity in IBM
Name of proposed Resource:	
The Bidder SHOULD demonstrate that the Proposed Application/Software Architec Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage h	

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last ten (10) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Information Server DataStage or QualityStage large scale (project value of \$6 million or greater) solution implementation at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

		BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last ten (10) years, performing the integration of IBM DataStage or QualityStage with one or more of the following IBM products: • IBM Business Process Management (BPM)* Advanced • IBM Master Data Management(MDM)* • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)*	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	*Or previous versions or instances.			

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IB	M
InfoSphere Information Server (IIS) DataStage and QualityStage	

Name	of	proposed	Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

,	
DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
•	1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15

, ·	•	pposed Application/Software DataStage and QualityStage	e Architect – Specialty in IBM
Name of pro	posed Resource:		

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4 Experience, within the last ten (10) years, working as an application/software architect on projects using an ETL product for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.		5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.8 Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)

1	perience and Expertise of the Proposed Application/Software Architect – Specialty in IBM oSphere Identity Insight (ISII)
N	ame of proposed Resource:
1	e Bidder SHOULD demonstrate that the Proposed Application/Software Architect – ecialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE		
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME	
R.1	In addition to M2, experience within the last eight (8) years, working as an application/software architect on the design, prototyping, components integration and oversight, as part of an IBM InfoSphere Identity Insight (ISII)* large scale project (project value of \$6 million or greater) solution implementation, aligned with a Service Oriented Architecture (SOA), at an enterprise level with multiple stakeholders (greater than 2).	15	 2+ to 3 years = 5 points 3+ to 4 years = 10 points 4+ years = 15 points 		

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM
InfoSphere Identity Insight (ISII)

Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RESPONSE	
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.2	Experience, as an application/software architect, within the last eight (8) years, performing the integration of IBM InfoSphere Identity Insight with one or more of the following IBM products: • IBM Master Data Management(MDM) • IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	

Experience and Expertise of the	Proposed Application/Software	e Architect – Specialty in IBM
InfoSphere Identity Insight (ISII)		

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

RATED CRITERIA	POINTS		
	Max	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
Experience, within the last eight (8) years, as an application/software architect in the development of security requirements* of an IBM InfoSphere Identity Insight (ISII)** implementation that required an integration with one or more of the following COTS: IBM Operational Decision Manager (ODM)** Standard or Advanced IBM Master Data Management (MDM)** IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)** IBM Global Name Manager (GNM) IBM InfoSphere Information Server DataStage or QualityStage IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of IBM InfoSphere Identity Insight with other products part of a solution and alignment with security frameworks, security policies, and guidelines.	15	 1 to 2 years = 5 points 2+ to 3 years = 10 points 3+ years = 15 points 	
	years, as an application/software architect in the development of security requirements* of an IBM InfoSphere Identity Insight (ISII)** implementation that required an integration with one or more of the following COTS: IBM Operational Decision Manager (ODM)** Standard or Advanced IBM Master Data Management (MDM)** IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** IBM Global Name Manager (GNM) IBM InfoSphere Information Server DataStage or QualityStage IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of IBM InfoSphere Identity Insight with other products part of a solution and alignment with security frameworks, security policies, and	Experience, within the last eight (8) years, as an application/software architect in the development of security requirements* of an IBM InfoSphere Identity Insight (ISII)** implementation that required an integration with one or more of the following COTS: IBM Operational Decision Manager (ODM)** Standard or Advanced IBM Master Data Management (MDM)** IBM Integration Bus (IIB) – Enterprise Service Bus (ESB)** IBM Global Name Manager (GNM) IBM InfoSphere Information Server DataStage or QualityStage IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of IBM InfoSphere Identity Insight with other products part of a solution and alignment with security frameworks, security policies, and guidelines.	Experience, within the last eight (8) years, as an application/software architect in the development of security requirements* of an IBM InfoSphere Identity Insight (ISII)** implementation that required an integration with one or more of the following COTS: IBM Operational Decision Manager (ODM)** Standard or Advanced IBM Master Data Management (MDM)** IBM Integration Bus (IIB) — Enterprise Service Bus (ESB)** IBM Global Name Manager (GNM) IBM InfoSphere Information Server DataStage or QualityStage IBM Business Process Management (BPM)** Advanced *Security requirements include the integration of IBM InfoSphere Identity Insight with other products part of a solution and alignment with security frameworks, security policies, and guidelines.

Experience and Expertise of the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII)	_
Name of proposed Resource:	

The Bidder SHOULD demonstrate that the Proposed Application/Software Architect – Specialty in IBM InfoSphere Identity Insight (ISII) has:

			BIDDER'S RES	PONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.4	Experience, within the last ten (10) years, working as an application/software architect on projects with a relationship analytical tool for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points 	
	Maximum available points	50		
	Minimum points required	30		

2.9 Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance

Experience and Expertise of the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance
Name of proposed Resource:
The Bidder SHOULD demonstrate that the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance has:

			BIDDER'S RESI	PONSE
#	RATED CRITERIA	POINTS MAX	DEMONSTRATED EXPERIENCE	INSERT PAGE # OF RESUME
R.1	In addition to M2, experience, within the last eight (8) years, working as a business system analyst responsible for the Data Governance of a large scale MDM solution implementation (project value of \$6 million or greater) at an enterprise level with multiple stakeholders (greater than 2).	15	 3+ to 4 years = 5 points 4+ to 5 years = 10 points 5+ years = 15 points 	

Experience and Expertise of the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance
Name of proposed Resource:

The Bidder SHOULD demonstrate that the Proposed Business System Analyst – Specialty in IBM Master Data Management (MDM) - Data Governance has:

			BIDDER'S RESPONSE
#	RATED CRITERIA	POINTS	DEMONSTRATED INSERT PAGE # EXPERIENCE OF RESUME
R.2	Experience, within the last eight (8) years, working as a business system analyst responsible for the Data Stewardship and working with an IBM MDM* Data Stewardship interface of a large scale (project value of \$6 million or greater) IBM MDM solution implementation at an enterprise level with multiple stakeholders (greater than 2).	15	 2 to 3 years = 5 points 3+ to 4 years = 10 points 4+ years = 15 points
R.3	Experience, within the last ten (10) years, working as a business system analyst on projects that required the integration of an MDM component for a government* client. *Government may include the Federal, Provincial or Municipal Government. The Government of Canada includes any department, agency, board of the Government of Canada or a Crown corporation.	5	 1 to 2 years = 1 points 2+ to 3 years = 3 points 3+ years = 5 points
	Maximum available points	35	
	Minimum points required	21	

Government Gouvernement du Canada

Contract Number / Numéro du contrat
1000322116 / 47060-152116
Security Classification / Classification de sécurité

SECURITY REQUIREMENTS CHECK LIST (SRCL)

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5. a) Will the supplier require access to Controlled Goods? Le fournisseur avail-il ancès à des marchandies controlées? J. Who Over Regulations? Le fournisseur avail-il ancès à des marchandies controlées? Le fournisseur avail-il ancès à des derniques? Le fournisseur avail-il ancès à des derniques military technical date subject to the provisions of the Technical Data Control V. No Yes Regulations? Indicate the type of access require access to PROTECTES and/or CLASSIFIED information or assets? Le fournisseur avail-il ancès à des derniques? Indicate the type of access require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur alists que les employees area unitis and te labelau qui se frouve à la gunstion 7. c) (Protecter le revieur) d'accès employees and utilisant le tableau qui se frouve à la gunstion 7. c) (Protecter le revieur) d'accès en utilisant le tableau qui se frouve à la gunstion 7. c) (Protecter le vinition et utilisant le tableau qui se frouve à la gunstion 7. c) (Protecter le vinitiant le supplier and its employees (e.g. disaners, maintenance personneil) require access to restricted access areas? No access to Von Out Le fournisseur et ses employées (p. ex. nettoyeurs, personnel d'emitein) access à des zones d'accès restreintes? L'accès à des ensembles employees (e.g. disaners, maintenance personneil) require access à des zones d'accès restreintes? L'accès à des ensembles employees (e.g. disaners, maintenance personneil) require access à des zones d'accès restreintes? L'accès à des ensembles employees (e.g. disaners, maintenance personneil) require access à restricted access areas? No accès restreintes? L'accès à des consections enterines à la distre require du controlle de massagnée de le virole des biens PROTECTES et évolutions commercial accès à des zones d'accès restreintes? L'accès à des zones d'accès restreintes? L'accès à des zones d'accès restreintes? L'accès a des zones d'accès restreintes? L'accès a des zones d'accès restreintes? L'accès à la diffusion	Standing offer for the provision of Task Based infor	natics Professional Servi	ces to the Governm	ent of Cana	ada					
Le fournisseur aura-t-il accès à des marchandises contrôtées? No Vill the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Vino Yes No No Yes No No No No No No No N	ander i introdo m anto no mesa do permeto a la compansión de la compa									
Le fournisseur aura-t-il accès à des marchandises contrôtées? No Vill the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Vino Yes No No Yes No No No No No No No N										
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TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

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Government of Canada Gouvernement du Canada Contract Number / Numéro du contrat

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TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

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Government of Canada

Gouvernement du Canada

***	Contract	/ Numéi	o du	contrat

Security Classification / Classification de sécurité

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13. Organization Project Authority / C						C-10.	
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Hien Kien Tsang		A/Director			V 20	4	
Telephone No N° de téléphone	Facsimile No N° de	lélécopieur	E-mail address - Adresse coul	rriel	Oale And	a(5-2)	15
14. Organization Security Authority /	Responsable de la séc	urité de l'orgar	isme	***	77	X	/
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AHMED SALAH		SECULI	W SPECIALIST		<u>5.</u>	el ^P	
Telephone No N° de léléphone	Facsimile No N° de	télécopieur	E-mail address - Adresse cou	rriel	Date 라니요	.lo8/17	
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16. Procurement Officer / Agent d'ar	provisionnement						
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Telephone No N° de téléphone	Facsimile No N° de	l télécopieur	E-mail address - Adresse co	urriel	Date		
17. Contracting Security Authority / /	Autorité contractante en	malière de sé	curi té		<u> </u>		
Name (print) - Nom (en lettres mould	es)	Title - Titre		Signature			
Telephone No N° de téléphone	Facsimile No N° de	télécopieur	E-mail address - Adresse co	urriel	Date		<u></u>

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada a



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats: Informatics Professional Services - EL Division/Services professionnels en informatique division EL 4C2, Place du Portage

Gatineau Québec K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Mella MARK COLDHAM 07/10/2017

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC, 106 Colonnade, Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sujet Resource & Solution Based Contract No. - Nº du contrat Amendment No. - Nº Modif 001 47060-152116/002/EL Client Reference No. - N° de référence du client Date 2017-07-11 1000322116 Regulsition Reference No. - Nº de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 615el.47060-152116 GST/HST Financial Codes TPS/TVH Code(s) financier(s) F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Drolts** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des blens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Involces - Original and two copies to be sent to:
Factures - Envoyer l'original et deux copies à:
Canada Border Service Agency
Agence des services frontaliers du Canada
vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred)
(National Invoice Reception Unit)
105 Rue McGill #250-01
Montreal Quebec H2Y 2E7

Address Enquirles to: - Adresser toutes questions à: Ghaddab, Nabil		Buyer Id - Id de l'acheteur 615el			
Telephone No N° de téléphone FAX No N° de FAX (819) 956-5419 () () -					
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Page 1 of - de 1



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Ouébec

K1A 0S5

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Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sujet Resource & Solution Based		
Contract No N° du contrat 47060-152116/002/EL		Amendment No N° Modif
Client Reference No N° de 1000322116	référence du client	Date 2017-07-11
Requisition Reference No 47060-152116	N° de la demande	
ile No N° de dossier	CCC No./N° CCC - F	MS No./N° VME
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Financial Codes Code(s) financier(s)		GST/HST TPS/TVH
F.O.B F.A.B.		

Included - Inclus

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:
CANADA BORDER SERVICES AGENCY (CBSA)
330 North River Road, Ontario, K1A 0L8

Duty - Droits

Invoices - Original and two copies to be sent to:
Factures - Envoyer l'original et deux copies à:
Canada Border Service Agency
Agence des services frontaliers du Canada
vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred)
(National Invoice Reception Unit)

105 Rue McGill #250-01 Montreal Ouebec H2Y 2E7

Destination

GST/HST - TPS/TVH

Address Enquiries to: - Adresser toute Ghaddab, Nabil	Buyer Id - Id de l'acheteur 615el	
Telephone No N° de téléphone (819) 956-5419 ()	de FAX	
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Revised estimated cost Coût révisé estimatif \$3,145,716.00	Currency Ty	rpe - Genre de devise
For the Minister - Pour le Ministre	2//	-JP

ASFC - Divulgation en vertu de la loi sur l'Accès à l'Inform

This Contract Amendment is raised to modify the Annex C - Security Requirements Check List (SRCL) form and replace it with a fully signed one by all parties.

1. Modification to the Annex C - Security Requirements Check List (SRCL) form of the Contract, as follows:

DELETE

Annex C - Security Requirements Check List (SRCL) form, in its entirety; and

REPLACE

with the following:

(see the next page)

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME

COMMON-PS-SRCL#19



Government of Canada Gouvernement du Canada Contract Number / Numero du centrat
47060 - 152116 / C.C. 2 / EL

Security Classification / Classification de sécurité
UNCLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS) PARTA GONTRAGTINEORMATION/PARTEA INFORMATION GONTRACTURIUM

I. Originaling Government Department of Original (CBS)

Ministère ou organisme gonvernemental d'origine CBSA CBSA 2. Branch of Directorate / Direction générale eu Direction SPMMD a) Subcontract Number / Numéro du contrat de sous-traitance 3 b) Name and Address of Subcontractor / Nom et adresse du sous-traitant 4. Ruel Description of Work Efficence description du travail 5: a) Will the supplier require access to Controlled Goods? V Non Le fournisseur oura-t-il accès à des marchandises contrôlées? Óu 6) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control No V Non Yes Regulations? Le loumisseur aura t-il accés à des données terrinques militaires non classifiées qui sont assujetties aux dispositions du Réglement sur le contrôle des dennées techniques? Indicate the type of access required / Indiquer te type d'accès requis 6: a) Vall the supplier and its employees require access to PROTECTED audior CLASSIFIED information or assets? No. Yes Le lournisseur binar que les employes auront ils accès à des renseignaments ou à des biens PROTEGÉS et/ou CLASSIFIÉ \$7 (Specify the level of access using the chart in Chrestion 7, c) (Préciser le niveau d'accès en unissant le lableau qui se frouve à la question 7 c) 5 b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted Non PROTECTED and/or CLASSITED information or assets is permitted
Le fournisseur et ses employés (p. ex. nottoyeurs, personnet d'entrêtien) auront-lis accès à des zones d'accès restreintes? L'accès
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6, c) is this à commercial courier or delivery requirement with no overnight storage?
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Security Classification / Classification de sécurité
UNCLASSIFIED

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Government Gouvernement du Canada

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Becuniy Classification / Classification de sécurité UNCLASSIFIED Canada

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Government of Canada Goovernement du Canada

Public Services and Procurement Canadal Services publics et Approvisionnement Canada

Centrael Number / Mantero du confrat Security Classification / Classification de sécurite UNCLASSIFIEO

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TBS:SCT 350-103(2004/12)

Jacques Saumin@hage-pvigse ge ca Tolephone | Tolephone 613-946-1732 Facsante | Tolecopeur 613-948-1712

Security Classification / Classification de sécurité
UNCEASSIFIED

Canad'ä



Public Works and Government Services Canada Travaux publics et Services gouvernementaux

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau Ouébec

K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended; unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié; sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment

Le fournisseur/entrepreneur accepte la présente

modification/en accuse réception.

MARK BECUTIVE

Signature COLO HAM Date Dec 20,2017

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une cople dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Ralson sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sulet Resource & Solution Based Contract No. - Nº du contrat Amendment No. - Nº Modif 47060-152116/002/EL 002 Client Reference No. - N° de référence du client Date 2017-12-20 1000322116 Regulation Reference No. - Nº de la demande 47060-152116 File No. - N° de dossler CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 Financial Codes **GST/HST** TPS/TVH Code(s) financier(s) F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8

Involces - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency

Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit)

105 Rue McGill #250-01 Montreal Quebec H2Y 2E7

Address Enquiries to: - Adresser toutes questions à:

Buyer Id - Id de l'acheteur 639el

Villeneuve, Julie 639el
Telephone No. - N° de téléphone FAX No. - N° de FAX
(819) 420-5967 () () -

Increase (Decrease) - Augmentation (Diminution)

\$4,194,288.00 Revised estimated cost

Currency Type - Genre de devise

Coût révisé estimatif \$7,340,004.00

CAD

For the Minister - Pour le Ministre



Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

002

639el

This Contract Amendment No.002 is raised in order to Exercise Option Period:

- 1. Amend the Revised Estimated Cost;
- 2. Amend the Contract Period; and
- 3. Amend the Contracting Authority.
- 1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$3,145,716.00

INSERT:

\$7,340,004.00

2. At Article 6, under Contract Period:

DELETE:

Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2019.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

(b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to four additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

3. At Article 7 (a) of the Contract, under Contracting Authority:

DELETE:

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation)

47060-152116/002/EL

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

639el

Name:

Nabil Ghaddab

Supply Specialist

Public Works and Government Services Canada

002

Acquisitions Branch

Directorate:

Space, Innovation and informatics Projects Directorate

Address:

11 Laurier Street, Gatineau, Québec

Telephone:

873-469-4984

Email:

nabil.ghaddab@tpsgc-pwgsc.gc.ca

INSERT:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address:

11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone:

(819) 420-5967

E-mail address: Julie.villeneuve3@tpsqc-pwqsc.qc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.



Public Works and **Government Services** Canada

Travaux publics et Services gouvernementaux

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique division EL.

4C2, Place du Portage

Gatineau

Québec

K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Vanvery 2019

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Sulet Resource & Solution Based Contract No. - Nº du contrat Amendment No. - N° Modif 47060-152116/002/EL 003 Client Reference No. - N° de référence du client Date 1000322116 2019-01-24 Requisition Reference No. - N° de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 639el.47060-152116 Financial Codes **GST/HST** Code(s) financier(s) TPS/TVH F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8 Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01 Montreal Quebec H2Y 2E7 Address Enquiries to: - Adresser toutes questions à: Buyer Id - Id de l'acheteur Villeneuve, Julie 639el FAX No. - N° de FAX Telephone No. - N° de téléphone (613) 858-9487 () Increase (Decrease) - Augmentation (Diminution) \$4,000,000.00 Revised estimated cost Currency Type - Genre de devise Coût révisé estimatif \$11,340,004,00 CAD For the Minister - Pour le Ministre

Villeneuve, Julie 3 Date: 2019.01,25 10:01:08 05'00'

Digitally signed by Villeneuve, Julie 3



Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/002/EL Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

003

639el

This Contract Amendment No.003 is raised in order to Exercise Option Period:

- 1. Amend the Revised Estimated Cost; and
- 2. Amend the Contract Period.

1. On the first page of the contract, under Revised Estimated Cost:

DELETE:

\$7,340,004.00

INSERT:

\$11,340,004.00

2. At Article 6, under Contract Period:

DELETE:

Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2020.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

(b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

Part - Partie 2 of - de 2 / Page 1 of - de 2

Contract No. - N° du contrat (or Solicitation No. - N° de l'invitation) 47060-152116/002/EL Amd. No. - N° de la modif

003

Buyer ID - Id de l'acheteur

639el

Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

Purchasing Office - Bureau des achats:

Informatics Professional Services - EL

Division/Services professionnels en informatique - division EL

4C2, Place du Portage

Gatineau

Ouébec

K1A 0S5

CONTRACT AMENDMENT MODIFICATION AU CONTRAT

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Ce document est par la présente modifié: sauf indication contraire, les modalités du contrat demeurent les mêmes.

The Vendor/Firm hereby accepts/acknowledges this amendment.

Le fournisseur/entrepreneur accepte la présente modification/en accusé réception.

Signature

Date

Name, title of person authorized to sign (type or print) Nom et titre du signataire autorisé (taper ou imprimer)

Return signed copy forthwith

Prière de retourner une copie dûment signée immédiatement

Comments - Commentaires

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur

868346149PG0001 DONNA CONA INC. 106 Colonnade. Suite 100 Ottawa Ontario K2E7L6

Canada

Title - Suiet Resource & Solution Based Contract No. - N° du contrat Amendment No. - N° Modif 47060-152116/002/EL 004 Client Reference No. - N° de référence du client Date 1000322116 2019-12-20 Requisition Reference No. - N° de la demande 47060-152116 File No. - N° de dossier CCC No./N° CCC - FMS No./N° VME 641el.47060-152116 **Financial Codes GST/HST** Code(s) financier(s) TPS/TVH F.O.B. - F.A.B. Destination GST/HST - TPS/TVH **Duty - Droits** Included - Inclus See Herein - Voir ci-inclus Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY (CBSA) 330 North River Road, Ontario, K1A 0L8 Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies à: Canada Border Service Agency Agence des services frontaliers du Canada vendors-fournisseurs@cbsa-asfc.gc.ca (Preferred) (National Invoice Reception Unit) 105 Rue McGill #250-01

Address Enquiries to: - Adresser toutes questions à:

Michaud, Daniel

Telephone No. - N° de téléphone

FAX No. - N° de FAX

(613) 858-8483 () () -

Increase (Decrease) - Augmentation (Diminution)

\$4,194,288.00

Revised estimated cost
Coût révisé estimatif
\$15,534,292.00

CAD

For the Minister - Pour le Ministre

Bastien, Josee Digitally signed by: Bastien, Josee C = CA O

Montreal Ouebec H2Y 2E7



Page 1 of - de 1 000238

Contract No. - N° du contrat 47060-152116/002/EL Amd. No. - N° de la modif. 004

Buyer ID - Id de l'acheteur 641el

This Contract Amendment No.004 is raised in order to Exercise Option Period and change the Contracting Authority:

1. Amend the Revised Estimated Cost;

- 2. Amend the Contract Period: and
- 3. Amend the Contracting Authority.

1. On the first page of the contract, under Revised Estimated Cost:

DELETE: \$11,340,004.00

INSERT: \$15,534,292.00

2. At Article 6, under Contract Period:

DELETE: Article 6 in its entirety

INSERT:

6. Contract Period

- (a) Contract Period: The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
 - (i) The "Initial Contract Period", which begins on the date the Contract is awarded and ends February 23, 2021.
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any option set out in the Contract.

(b) Option to Extend the Contract:

- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one-year periods under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
- (ii) Canada may exercise this option at any time by sending a written notice to the Contractor before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced, for administrative purposes only, through a contract amendment.

Contract No. - N° du contrat 47060-152116/002/EL Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

004 641el

3. At Article 7 (a) of the Contract, under Contracting Authority:

DELETE:

Name:

Julie Villeneuve

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address: 11 Laurier Street, Portage III, 4C2,

Gatineau, QC K1A 0S5

Telephone: (819) 420-5967

E-mail address: Julie.villeneuve3@tpsgc-pwgsc.gc.ca

INSERT:

Name: Daniel Michaud

Supply Specialist

STAMS / ITSPD / EL Division

Public Works and Government Services Canada

Address: 10 wellington, Gatineau, QC K1A 0S5

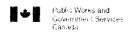
Telephone: (613) 858-8483

E-mail address: daniel.michaud@tpsgc-pwgsc.gc.ca

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT REMAIN THE SAME.

PART 1 (completed by the Technical/Service Assistant) / PARTIF 1 (complete nate Bernary ble technique (Chared du projet)

Category / Catégorie Level / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Travel Requirement(s) / Exigence(s) de voyage: N/A	A. General Information / Inform	nations généra	ales				
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C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) 3 English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: N/A	Amendment No. / Nº de la modificat	ion : 1					
C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau Linguistic Profile / Profile linguistique Required Level(s) of Security / Niveau(x) de sécurité requis Required Level(s) of Security / Niveau(x) de sécurité requis Secret Application/Software Architect - specialty in IBM Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: N/A	Reason for the Amendment / Raison	pour la modific	ation :				
Category / Catégorie Level / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Travel Requirement(s) / Exigence(s) de voyage: N/A	Time extension			ng nagaran manana makananan yana na na pakabaninin ni na kukula hisintak misika			
Category / Catégorie Level / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) 3 English / Anglais English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Travel Requirement(s) / Exigence(s) de voyage: N/A							
Category / Catégorie Level / Niveau Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) 3 English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Travel Requirement(s) / Exigence(s) de voyage: N/A	C. TA Requirements / Exigences	s relatives à l'A	<u>AT</u>				
Category / Catégorie Level / Niveau d'effort estimatif (jours) Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB) 3 English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Travel Requirement(s) / Exigence(s) de voyage: N/A	Required Resource(s) / Ressource(s) r	requise(s)	Particular Anna Carlos Carlos			+	
Integration Bus (IIB) - Enterprise Service Bus (ESB) Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: N/A	Category / Catégorie		Level / Niveau	Effort (days) / Niveau d'effort estimatif		1 .	- 1
Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : N/A			3		English / Anglais	Secret	
Period of Services / Période de service: Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : N/A	Statement of Work (tasks, deliverabl	es, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)		
Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019 Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : N/A	Please see the attached SOW for det	ails pertaining to	o the work bein	ng completed under thi	is task authorization.		
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019	Period of Services / Période de ser	vice:		and allows consider the second consideration of the second			
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : N/A	Initial Start Date / Date de début initi	iale : Apı	ril 6, 2017	Initial End Da	ite / Date de fin initiale :	May 31, 2019	
Travel Requirement(s) / Exigence(s) de voyage : N/A	Extented End Date (See Reason for th	ne Amendment)	/ Date de fin pr	rolongée (voir Raison p	our la modification) :	June 28, 2019	
	Option To Extend Initial End Date	e / Option pour p	prolonger la dat	te de fin initiale			
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Travel Requirement(s) / Exigence(s) c	de voyage :	N/A				
	Work Location(s) / Lieu(x) de travail :		333 North I	River Road, Ottawa, ON	I (National Capital Region)		
PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/où le Responsable technique / Chargé du projet)		. 2% - 11 % 6 1 1 1 2 3 4 1 1 1 1		<u> 1882 - 191</u> 3, politikoje in 1885 kieroje in 1885 kieroje			



Travaux publics et Services gouvernementaux Canada

de la personne autorisée à signer au nom de l'entrepreneur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coùt estimatif
+ Ilication/Software Architect - specialty in Integration Bus (IIB) - Enterprise Service Bus (ESB)	\$96,250.00			
			Estimated Cost / Coût estimatif	\$96,250.00
Total	Estimated Trav	vel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	\$12,512.50			
		Total Estima	ated Cost / Coût total estimatif	\$108,762.50

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorise atteste(nt) que le contenu de cette AT est conform	
The client's authorization limit is \$1,200,000.00 When the value of a TA and its amendments (including G\$T/H\$T) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWG\$C Contracting Authority for authorization.	La limite d'autorisation du client est \$1,200,000.0 (incluant la TPS/TVH) dépasse cette limite, l'AT doi l'autorité contractante de TPSGC pour autorisation	it être signée par le client autorisé et transmise à
Name of Authorized Client / Nom du client autorise Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature	Signature	-
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR	



A General Information / Informations denérales Contract Number / Numéro du contracteur: \$7060-152116/001/EL Contractor Name / Nom du Contracteur: BM Task Authorization (TA) No. / N° Commitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by / Repose required for the project. Pleas for the Amendment Only / Aux fins de modification seulement Amendment No. / N° de la modification: Reason for the Amendment / Raison pour la modification : Reason for the Amendment / Raison pour la modification : Reason for the Amendment # 1 ~ The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Pleas note that this is in no way to be perceived as a negative reflection of the services/deliverables work that have been provided to date by the resource. C. TA Requirements / Exigences relatives à l'AT Required Level of Effort (days) / Niveau (affort estimated Level of Effort (days) / Niveau (a	PART T (completed by the Technical Project A	uriony / PARTII	1 (completé pa	it le Responsible technique/Charge	Bu projet) **	
Contractor Name / Nom du Contracteur: BIM Task Authorization (TA) No. / N° de Financial Coding / Code Date of Issuance / Date Response required by / Réponse requise par : (1000335203 1911-200-20 May 31, 2017 May 31, 2017 May 31, 2017 B. For Amendments Only / Aux fins de modification seulement Amendment No. / N° de la modification: 1 Reason for the Amendment / Ralson pour la modification: 1 Reason for the Amendment # 1 - The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Pleasonet that this is in no way to be perceived as a negative reflection of the services/deliverables work that have been provided to date by the resource. C. TA Requirements / Exigences relatives à l'AT Required Resource(3) / Ressource(3) requise(5) Category / Catégorie	A. General Information / Infor	mations généra	les		,	
Task Authorization (TA) No. / No de l'engagement: financial Coding / Code d'émission: Response required by / Réponse requise par : 2017002393	Contract Number / Numéro du cont	trat : 47060-1521	16/001/EL			
de l'autorisation de tâches (AT):	Contractor Name / Nom du Contrac	teur : IBM				
2017002393 [1911-200-20] [May 31, 2017] [Ma				_		
B. For Amendments Only / Aux fins de modification seulement Amendment No. / Nº de la modification: Reason for the Amendment / Raison pour la modification: Amendment #1 - The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Pleason note that this is in no way to be perceived as a negative reflection of the services/deliverables work that have been provided to date by the resource. C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau Estimated Level of Effort (days) / Niveau d'effort (days) / Niveau d'effort (days) / Niveau d'effort estimatif (jours) Linguistic Profile / Profile Required Level(s) of Security / Niveau(x) de sécurité requis linguistique Programmer/Software Architect - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Perfod of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extended End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin Initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lleu(x) de travall: 333 North River Road, Ottawa, ON (National Capital Region)						
Amendment No. / Nº de la modification: Reason for the Amendment / Raison pour la modification: Amendment #1 - The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Pleas note that this is in no way to be perceived as a negative reflection of the services/deliverables work that have been provided to date by the resource. C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau d'effort (days) / Niveau d'effort estimatif (jours) Linguistic Profile / Profile Required Level(s) of Security / Niveau(x) de sécurité requis Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Programmer/Software Developer - Specialty in IBM 3 English / Anglais Secret Secret Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)		<u> </u>				
Reason for the Amendment / Raison pour la modification: Amendment #1 - The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Please note that this is in no way to be perceived as a negative reflection of the services/deliverables work that have been provided to date by the resource. C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin Initiale Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Leu(x) de travall: 333 North River Road, Ottawa, ON (National Capital Region)			cation seul	lement		
Amendment #1 - The CBSA Project Authority has determined that the resources under TA #2017002393 are no longer required for the project. Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Mar 20, 2017 Extended End Date / Date de début initiale: Mar 20, 2017 Mar 20, 2017 Mar 21 Again Flaver Read Indiale Mar 20, 2017 Mar 20, 2018 Mar 20, 201		L				
C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Category / Catégorie Level / Niveau d'effort (days) / Niveau d'effort estimatif (jours) Application/Software Architect - Specialty in IBM Operational Decision Manager (DDM) 3 English / Anglais Secret Programmer/Software Developer - Specialty in IBM Operational Decision Manager (DDM) 3 English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Perlod of Services / Pérlode de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin Initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lleu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)				t the resources under TA	#2017002303 are no longe	r required for the project. Please
Category / Catégorie Level / Niveau d'effort estimatif (Jours) Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Perlod of Services / Pérlode de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 May 31, 2017 May 31, 2017 May 31, 2017 Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	note that this is in no way to be pe	rceived as a negat	ive reflection	of the services/deliveral	oles work that have been p	rovided to date by the resource.
Category / Catégorie Level / Niveau d'effort estimatif (Jours) Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Perlod of Services / Pérlode de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 May 31, 2017 May 31, 2017 May 31, 2017 Travel Requirement(s) / Exigence(s) de voyage: Travel Requirement(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	C. TA Requirements / Exigence	es relatives à l'A	\T			
Level / Niveau d'effort estimatif (Jours) Linguistic Profile / Profile Required Level(s) of Security / Niveau(x) de sécurité requis Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) 3 English / Anglais Secret Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale : Mar 20, 2017 Initial End Date / Date de fin initiale : May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : Travel not required Work Location(s) / Lleu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)			<u></u>			•
Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM) Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM) Statement of Work (tasks, deliverables, reports, etc.) / £noncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lleu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	Category / Catégor	ie	Level / Nive	au Effort (days) / Niveau d'effort estimatif		
Operational Decision Manager (ODM) Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lleu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)			3		English / Anglais	Secret
Please see the attached SOW for details pertaining to the work being completed under this task authorization. Period of Services / Période de service: Initial Start Date / Date de début initiale: Mar 20, 2017 Initial End Date / Date de fin initiale: May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)		•	3		English / Anglais	Secret
Period of Services / Période de service: Initial Start Date / Date de début initiale : Mar 20, 2017 Initial End Date / Date de fin initiale : May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : Travel not required Work Location(s) / Lleu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Statement of Work (tasks, delivera	bles, reports, etc.)	/ Énoncé des	s travaux (tâches, livrable	s, rapports, etc.)	
Initial Start Date / Date de début initiale : Mar 20, 2017 Initial End Date / Date de fin initiale : May 31, 2017 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : Travel not required Work Location(s) / Lleu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Please see the attached SOW for d	letails pertaining t	o the work b	eing completed under th	is task authorization.	
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage : Travel not required Work Location(s) / Lleu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Period of Services / Période de s	ervice:		$\overline{\lambda}$		\sim
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Travel Requirement(s) / Exigence(s) de voyage: Travel not required Work Location(s) / Lleu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	Initial Start Date / Date de début ir	nitiale: Ma	r 20, 2017	Initial End Da	ate / Date de fin initiale :	May 31, 2017
Travel Requirement(s) / Exigence(s) de voyage : Travel not required Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Extented End Date (See Reason for	r the Amendment)	/ Date de fin	n prolongée (voir Raison p	oour la modification) :	
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Option To Extend Initial End D	ate / Option pour	prolonger la	date de fin initiale		
	Travel Requirement(s) / Exigence(s	s) de voyage :	Travel n	ot required		·
PART 2 (completed by the Confriction and other technical rooms and sons // PARTIE2 (completed by the Confriction and other technical rooms and profits.)	Work Location(s) / Lleu(x) de trava	il:	333 Nor	th River Road, Ottawa, O	N (National Capital Region)	
。这是是一个工作,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们	PARTO		LOS/DAI	RTIFO		
A. Contractor Resource(s) / Ressource(s) du Contracteur					enoria necholizabili activiti	

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom		Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3			95149716	

Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif			
3			\$118,675.00			
3		District Control of the Control of t	\$160,650.00			
Estimated Cost / Coût estimatif						
Estimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00			
13.000	Applica	\$36,312.25				
	Total Estimat	ted Cost / Coût total estimatif	\$315,637.25			
	Niveau 3 3	Niveau journalier 3 3 Estimated Travel and Living Cost / Coût total 13:000 Applica	Niveau journalier (days) / Niveau d'effort estimatif (jours) 3 Estimated Cost / Coût estimatif Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie			

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC
certify(les) that the content of this TA is in accordance with the conditions of the Contract.	atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (Including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. The Client's authorization of the PWGSC Contracting Authority for authorization. The Client's authorization of the PWGSC Contracting Authority for authorization. The Client's authorization of the TA must be signed by the authorized client and forwarded by the authorized client and forwarded by the Authorized client and forwarded by the TA must be signed by the authorized client and forwarded by the authorized b	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TP5/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmis l'autorité contractante de TP5GC pour autorisation. Name of Contracting Authority / Nom de l'autorité contractante Signature

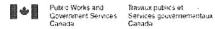
Page 2 of 2

Date



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A. General Information / Inform	nations généra	ales .							
Contract Number / Numéro du contr	at: 47060-152	47060-152116/001/EL							
Contractor Name / Nom du Contracto	eur : IBM							-8-3-	
	Commitment No l'engagement :		inancial Coding / Code inancier :		Date of Issuance / Da d'émission :	ate	Response required by Réponse requise par :		
2017002393	1000335203		911-200-20		Jul 31, 2017		Jul 31, 2017		
B. For Amendments Only / Aux	fins de modif	ication seul	ement						
Amendment No. / Nº de la modificati	ion : 2								
Reason for the Amendment / Raison	pour la modific	ation :			· · · · · · · · · · · · · · · · · · ·				
Amendment #2 - This amendment w	vas created to ex	tend the end	date of TA #2017002393	3 to Ja	nuary 31st, 2018 with	no ind	crease in dollar value.		
C. TA Requirements / Exigences		<u>\T</u>							
Required Resource(s) / Ressource(s) r	equise(s)	T		1		T		_	
Category / Catégorie		Level / Niveau Level / Niveau d'effort estimatif (jours)			guistic Profile / Profile linguistique Required Level(s) of Secur Niveau(x) de sécurité requ			/	
Application/Software Architect - Sp Operational Decision Manage					English / Anglais	Secret		- -	
Programmer/Software Developer - S Operational Decision Manage						nglais Secret			
Statement of Work (tasks, deliverabl	es, reports, etc.)	/ Énoncé des	travaux (tâches, livrable:	s, rapp	oorts, etc.)				
Please see the attached SOW for det	ails pertaining to	o the work bei	ng completed under th	is task	authorization.				
Period of Services / Période de ser	vice:								
Initial Start Date / Date de début initi	ale: Ma	r 20, 2017	Initial End Da	ite / D	ate de fin initiale :		Jan 31, 2018		
Extented End Date (See Reason for th	ne Amendment)	/ Date de fin p	prolongée (voir Raison p	our la	modification) :				
Option To Extend Initial End Date	e / Option pour p	orolonger la d	ate de fin initiale		· · · · · · · · · · · · · · · · · · ·			40	
Travel Requirement(s) / Exigence(s) c	le voyage :	Travel no	required						
Work Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa, ON	l (Nati	ional Capital Region)				
Now : , Tourney separations To	3140 AM 504 to	- Seat at the least						y 1	
PART 2 (completed by the Contractor and/or the	ne Technical/Project Aut	hority) / PAR	TIE 2 (complété par le Contract	teur et/o	u le Responsable technique/Ch	argê du p	rojet)		
A. Contractor Resource(s) / Res.								Mini	

Page 1 of 2



Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique		PWGSC Security File No. / № du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	+
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
Ilication/Software Architect - Specialty in Operational Decision Manager (ODM)	3			\$72,048.35
Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3			\$160,650.00
,	\$232,698.35			
Total I	Estimated Trav	vel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$30,250.79	
		Total Estima	ated Cost / Coût total estimatii	\$262,949.14

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autoris atteste(nt) que le contenu de cette AT est conform	
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisatio	it être signée par le client autorisé et transmise à
Name of Authorized Client / Nom du client autorisé Date Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature Signature	Signature	

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

BARROS SARRE ALTERNAS SKIRBAU	Alanka Kis	Shelle 28 2017
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Infor		aic 3					
Contract Number / Numéro du cont	trat : 47060-152	116/001/EL					
ontractor Name / Nom du Contrac	teur : IBM						
Task Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No l'engagement :		inancial Coding / Code nancier :	Date of Issuance / Date of Issua	ate Response required by / Réponse requise par :		
2017002393	1000335203	1	911-200-20	Aug 18, 2017	Aug 18, 2017		
. For Amendments Only / Aux	x fins de modifi	ication seule	ment				
mendment No. / Nº de la modifica	ition : 3	-1					
Reason for the Amendment / Raiso	n pour la modifica	ation :					
Amendment #3 - The CBSA Project FA #2017002393 is required for an a		ermined that	the Programmer/Softwa	are Developer -Speciality in	IBM ODM (Raffaele Cocucci) unc		
TA Requirements / Exigence	es relatives à l'/	<u>AT</u>			671/E-0 - 1/E-0 - 1		
equired Resource(s) / Ressource(s)	requise(s)						
Category / Catégorie	e	Level / Niveau d'effort estimatif (jours) Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Estimated Level of Effort (days) / Niveau Linguistic Profile / Profile Required Level(s) of Security Niveau(x) de sécurité requis					
Application/Software Architect - S Operational Decision Manag		3		English / Anglais	Secret		
rogrammer/Software Developer - Operational Decision Manag		3		English / Anglais	Secret		
tatement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrable:	s, rapports, etc.)			
Please see the attached SOW for de	etails pertaining to	the work bei	ng completed under th	is task authorization.			
eriod of Services / Période de se	rvice:						
nitial Start Date / Date de début ini	tiale : Ma	r 20, 2017	Initial End Da	ite / Date de fin initiale :	Jan 29, 2018		
xtented End Date (See Reason for t	the Amendment)	/ Date de fin p	rolongée (voir Raison p	our la modification) :			
Option To Extend Initial End Dat	te / Option pour £	orolonger la da	ite de fin initiale		<u> </u>		
-		Travel not	required				
ravel Requirement(s) / Exigence(s)	de voyage :	Travernot					

Page 1 of 2

Name / Nom	Category / Catégorie	Level / Niveau	_	Level of Security / Niveau de sécurité	PWGSC Security File No. / № du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	+
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort	Total Cost / Coût estimatif
3		estimatii (jours)	\$72,048.35
3	***		\$390,915.00
		Estimated Cost / Coût estimatif	\$462,963.35
Estimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
13.000	Appli	cable Taxes / Taxes applicables	\$60,185.24
	Total Estim	ated Cost / Coût total estimatif	\$523,148.59
	Niveau 3 3 Estimated Trav	Niveau journalier 3 3 Estimated Travel and Living Cost / Coût total 13.000 Applie	Level / Niveau Per Diem Rate / Taux (days) / Niveau d'effort estimatif (jours) 3 Estimated Cost / Coût estimatif Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority	
certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	

The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.

Hicham Laassouli for N. Ghaddab

Name of Contracting Authority / Nom de

l'autorité contractante

laassouli, hicham DN c-Ch. 6-CC. GU-PMSSC/III-SCC, cn-lass

Signature

Signature

18 August 2017

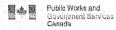
Date

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

August 28, 2017

Date



Travaux publics et Services gouvernamentaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PARI I (completed by the Technical/Project A	uthority) / PARTI	IE 1 (complété pa	r le Responsable technique / Chargo	έ du ρτοjεί)	
A. General Information / Infor	mations génér	<u>ales</u>			
Contract Number / Numéro du cont	rat : 47060-152	116/001/EL			
Contractor Name / Nom du Contrac	teur : IBM				
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No.		Financial Coding / Code Inancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
2017002393	1000335203		911-200-20	Mar 14, 2017	Mar 16, 2017
B. For Amendments Only / Au	cfins de modif	ication seul	ement		
Amendment No. / № de la modifica	tlon :				
Reason for the Amendment / Ralso	n pour la modific	ation :			
C. TA Requirements / Exigence					
Required Resource(s) / Ressource(s)	requise(s)				·
Category / Catégori		Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - S Operational Decision Management		3		English / Anglais	Secret
Programmer/Software Developer - Specialty In IBM Operational Decision Manager (ODM)		3	,	English / Anglais	Secret
Statement of Work (tasks, deliveral	oles, reports, etc.)	/ Énoncé des	travaux (tāches, livrable	s, rapports, etc.)	
Please see the attached 50W for do	etails pertaining t	o the work be	ing completed under th	ils task authorization.	
Perlod of Services / Période de se	rvice:				
Initial Start Date / Date de début initiale : Mar 20, 2017 Initial End Date / Date de fin initiale : Jul 31, 2			Jul 31, 2017		
Extented End Date (See Reason for	the Amendment)	/ Date de fin	prolongée (voir Raison p	oour la modification) ;	
Option To Extend Initial End Da					
Travel Requirement(s) / Exigence(s) de voyage: Travel not required					
Work Location(s) / Lieu(x) de travall	333 Nort	333 North River Road, Ottawa, ON (National Capital Region)			
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PART 2				meur ayaq tarihin indika mahilandir. T Salut ayalah dang mahilandir dan dalah dalah	
A. Contractor Resource(s) / Re	ssource(s) du (Contracteur			

Page 1 of 2



Travaux publics of Services gouvernementaux Canada

TASK AUTHORIZATION FORMI FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau	PWGSC Security File No. / № du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95040936	(+ (5)
	Programmer/Software Developer - Specialty in IBM Operational Decision Manager (ODM)	3	English / Anglais	Secret	95149716	

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
# lication/Software Architect - Specialty In Operational Decision Manager (ODM)	3.			\$118,675.00
Programmer/Software Developer - Specialty In IBM Operational Decision Manager (ODM)	3			\$160,650.00
	\$279,325.00			
Total I	\$0.00			
Taxe % applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicable				\$36,312,25
Total Estimated Cost / Coût total estimatif			\$315,637.25	

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

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The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. Robert Perwarden March 14/17	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation. ABIL Carch 2017 Larch 2017

가 보면서 전 그런데 be 그는 이번 회사들은 가장 그 동안하는 다른 "레이트는 가지가 그렇지는 함께는 가지를 받아보고, 가장하는 charge, 가장, charge, 기능하는	마이트 그는 아이를 하여 (1987)에 선생님 (1982)에 살아가는 그들이 되었습니다. 그는 모양 등에 보고를 보는 그는 것이 되었습니다. 그는 아이를 하는
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CARLOS SANTOS, AUTHORIZED SIGNATOR	01 - LOUINES AMENTE MAR-16-3015
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Signature
- Hause and true of management appointed to help off pends of the confidence i idolli &f (iii) &	faithing 5

Application/Software Architect

Title

Application/Software Architect (Level 3) and Programmer/Software Developer (Level 3) – Operations Decision Manager (ODM) for the Entry Exit Project.

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

In order to advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Travellers Project Portfolio Directorate (TPPD) has undertaken the Entry/Exit Entry/Exit is responsible for the development of a key Government of Canada commitment under the Canada US Border Action plan, to create a Canadian entry and exit information system which will, ultimately, provide a valuable new source of information with potential benefits for security, law enforcement and program. Key deliverables of the Entry/Exit (E/E) Project rely on the ability to calculate the duration of time inside of Canada or outside to Canada as well as to determine when a traveller has overstayed their authorized period of stay. The delivery of the Entry/Exit and IAPI projects is dependent on the components found in the SOA.

Entry/Exit I will leverage ODM to deliver the following:

- 1. Calculating duration of complete Entry to Exit Events.
- 2. Calculating duration of complete Exit to Entry Events
- 3. Calculating duration of open Exit Events.
- 4. Calculating duration of open Entry Events.
- 5. Creation of an indicator that a traveller may have overstayed their authorized period of stay.

Objective

To acquire professional services for one Application/Software Architect (Level 3) and one Programmer/Software Developer (Level 3) to perform the tasks and deliverables below.

Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating the Entry Exit project manager (or their delegate's) feedback). It is the Contractor's responsibility to

Page **1** of **5** 1000335203 – Draft SOW

CBSA Travellers Identity Resolution and Reconciliation

identify the resources and the respective level of effort required to perform the following tasks and complete the following deliverables.

Task#_	Task Task
Analysis	
ĩ.	Define automated decision making using ODM Standard (IBM COTS) including rule harvesting and development, rule flow development, rule application testing and deployment
2.	Define automated triggering of business processes and notifications based on event pattern matching using ODM Advanced including event pattern design and development, event application testing and deployment
3.	Perform performance optimization and troubleshooting
4.	Provide best practices and development guidelines
5.	Responsible for the establishment, maintenance and execution of rules management policies and workflow management, proactively maintain the integrity and accuracy of CBSA rules management system
6.	Meet with stakeholders in the traveller's program portfolio and the CBSA operations to gather and document the business requirements for effective rules development
7.	Establish rules and execution to ensure the results meets defined targets
8.	Plan, analyse and document results from unit, component and other related test plans for business rule applications
9.	Design and Develop: Business Object Models (BOM); and Execution Object Models (XOM)
10.	Identify and resolve rules processing issues and document
11.	Develop developer training material
Developn	vent
12.	Develop deployable business rule applications (including BOMs and XOMs as required) developed to CBSA standards using CBSA development infrastructure and processes
13.	Create Preliminary BOM design
14.	Complete BOM design
15.	Author rules in ODM
16.	Document Best Practice guidelines for troubleshooting BOM (as part of rules harvesting document)
17.	Complete the rules harvesting document with an executable validation model
18.	Complete the rules framework for the Travellers portfolio
19.	Author business rules in ODM as required
20.	Develop First draft of Business Rules in ODM
21.	Create a catalog of all the rules in ODM for the Traveller's portfolio
22.	Identify and document the data source(s) for the rules to be processed; delivered via final summary identifying any gaps at that time
Testing	
23.	Define and document Preliminary Test plans for the rules within ODM

CBSA Travellers Identity Resolution and Reconciliation

24.	Define and document Final Test plans within ODM
25.	Conduct tests
26.	Document Test Results
27.	Review, comment and develop recommendations according to best practices on the ODM-related System Use Cases and system requirements

Deliverables Schedule

The following suggested delivery schedule should be considered by the Contractor in the development of their project plan (including the assignment of the resources and their respective level of effort). CBSA is willing to accept revisions to this schedule if justified by the Contractor.

Deliverable #	Deliverable	Working Days from Contract Award
1,	Preliminary BOM design	20 days from contract award
2.	Complete BOM design and created	40 days from contract award
3.	Rules authored in ODM	40 days from contract award
4.	Rules Harvesting ¹ document, including: a. an executable validation model b. Best practice guidelines for troubleshooting BOM	40 days from contract award
5.	Rules Framework ² for the Travellers portfolio	40 days from contract award
6.	Authored business rules in ODM	As required
7.	First draft of Business Rules in ODM	15 days from contract award
8.	Catalog of all the rules in ODM for the Traveller's portfolio	20 days from contract award
9.	Document containing the data source(s) for the rules to be processed; delivered via final summary, identifying any gaps at that time	20 days from contract award
10.	Preliminary test plans for the rules within ODM	20 days from contract award
11.	Final Test plans within ODM by	60 days from contract award
12.	Testing Results document	80 days contract award
13.	Recommendations document (with respect to the ODM-related System Use Cases and system requirements)	20 days from contract award

¹ Harvesting is the activity of gathering business rules, which includes rule discovery and analysis.

² A Rules Framework is an event-controlled runtime environment in which the system processes certain rules. You can assign any number of rules to each event, whereby a rule normally consists of a Boolean expression and an action.

CBSA Travellers Identity Resolution and Reconciliation

Technical Environment

As defined in Section 12 of the contract number 47060-152116/001/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day. The hours that the Contractor will work will be specified in the TA and are expected to be 7.5 hours daily, within the core hours. All proposed personnel must be available to work outside normal office hours during the duration of the Contract. The Technical/Project Authority will advise the Contractor as soon as possible of any required work outside standard working hours.

Language

The proposed Resources will be required to perform the work in English. Every individual proposed in its Task Authorization will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

The resources must be able to perform the work and provide any deliverables in English.

Reporting Requirements

The contractor(s) are expected to submit weekly accomplishments submitted with timesheets by end of day Friday for each week to the Entry Exit project manager electronically via email. Outlining what work was undertaken during the reporting period, what work is still outstanding and any issues, risks or concerns that may affect the contractor's ability to meet the deliverables or their listed due dates.

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region.

There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and email address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



. General Information / Information	nations gener	aies			
ontract Number / Numéro du cont	rat: 47060-152	116/001/EL			-
ontractor Name / Nom du Contract	teur : IBM				
Fask Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No		inancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
2017002530	1000335563	1	913-300-00	January 24, 2018	January 25, 2018
. For Amendments Only / Aux	fins de modif	ication seule	ement		
mendment No. / Nº de la modifica	tion: 2				
Reason for the Amendment / Raison	n pour la modific	ation :			
Project delays have occurred and or Authorization.	n going deliveral	oles required b	y the client will be need	led at a later date than orig	inally anticipated in the initial Tas
. TA Requirements / Exigence	s relatives à l'	AT.			
equired Resource(s) / Ressource(s)	requise(s)				
Category / Catégorie	2	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - s Integration Bus (IIB) - Enterprise Se		3		English / Anglais	Secret
tatement of Work (tasks, deliverab	les, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	, rapports, etc.)	<u> </u>
Please see the attached SOW for de	tails pertaining to	o the work bei	ng completed under thi	s task authorization.	
eriod of Services / Période de ser	vice:				
nitial Start Date / Date de début init	iale : Ap	ril 6, 2017	Initial End Da	te / Date de fin initiale :	Jan 29, 2019
xtented End Date (See Reason for t	he Amendment)	/ Date de fin p	rolongée (voir Raison p	our la modification) :	
Option To Extend Initial End Dat	e / Option pour p	orolonger la da	te de fin initiale		
ravel Requirement(s) / Exigence(s)	de voyage :	Travel not	required.		
		333 North	River Road, Ottawa, ON	(National Capital Region)	
/ork Location(s) / Lieu(x) de travail :	•	J			
	TERRETAINEN SANTES SANTES			hi eyor le nesponsible be ningos (C	

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / № dú dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
Hilication/Software Architect - specialty in Integration Bus (IIB) - Enterprise Service Bus (ESB)	3			\$644,225.00
	\$644,225.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applica	\$83,749.25	
	\$727,974.25			

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

y signing this TA, the authorized client authority and/or the PWGSC Contracting Authority ertify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.					
he client's authorization limit is \$300,000.00 . When the value of a TA and its amendments ncluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and prwarded to the PWGSC contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . L (incluant la TPS/TVH) dépasse cette limite, l'AT doit l'autorité contractante de TPSGC pour autorisation.	être signée par le client autorisé et transmise à				
Name of Authorized Client / Nom du client autorisé Date Jan 24/18 Date	Name of Contracting Authority / Nom de l'autorité contractante	Date 25/18				
Signature	Signature	-				

Ε.	CA 2157	1	7 23.	-				7.3	17.5	T				3.2.00	-55	いいてき	200	28 187	VAC 4-2	CONTRACTOR OF COMMUNICATION OF COMMUNICA	ひつきり か		A SHOP	1-1-0		AFFE	2122	A	40.00		Commence of the	T-100 (1990)			F 5		
23	-	1		10.0	-		-	1	-				F 30	_				177			24.4	12.7	4.1			40-	1	3 1 2		S = 3.5	N		200	12 227	- 1,74	1. 4. 17	^
81	ΔŁ	A91 7		12.0				n.	37					. THE R	4 2 1	D E	1.5		ΝЮ		- T-	-1-1	977	- 61		F S S	nı				ABI.	rn		THE RES	<i></i>	10.00	3
				71.0	- V						3 27		8 h F.		u						- D			TIM	· (3)	24 G				4.7	116		44.	- 1 - 1 - 1		1861	s
4.3	12.7	3.40	E2	11/4/7	A 10 S	100		_ 7.6	7 7 7		121.73	ALC: N			0.00	100	100			22.7	3300	1.0	4					-	_	-	- T. T.		40.00			1000	4
E.	7.2	200		2 21	19 1	7-7-	12-11	1. 1.	1-1	3.74 /		40.00	- 71 -		1.7	100			12.00	11144		. 35 1	1 . 12 . 2	1 1 1	-120		7.	7.11 . 1	7	* > -7E	300 23	1 256		200	3 100	100	۲.

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur Signature Signature Date		Signature	<u>January 30, 2018</u> Date
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Travaux publics et Services gouvernementaux Canada

A. Contractor Resource(s) / Ressource(s) du Contracteur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PART	IE 1 (complété p	or le Responsable technique / Charg	é du projet)								
A. General Information / Informations génér	ales										
Contract Number / Numéro du contrat : 47060-152	2116/001/EL										
Contractor Name / Nom du Contracteur : IBM											
Task Authorization (TA) No. / N° Commitment N de l'autorisation de tâches (AT) : l'engagement :		Financial Coding / Code inancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :							
2017002530 1000335563			January 24, 2018	January 25, 2018							
B. For Amendments Only / Aux fins de modification seulement											
Amendment No. / Nº de la modification : 3											
Reason for the Amendment / Raison pour la modific	ation :	·									
Add days. No additional work. Adding funding to existing TA. Financial Info 1950-500-20, C-00053-20, 10100, 2001											
C. TA Requirements / Exigences relatives à l'A	AT ·										
Required Resource(s) / Ressource(s) requise(s)											
Category / Catégorie Level / Niveau Category / Catégorie Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Linguistic Profile / Profile Required Level(s) of Security / Niveau(x) de sécurité requis											
Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3		English / Anglais	Secret							
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des 1	ravaux (tâches, livrables	s, rapports, etc.)								
Please see the attached SOW for details pertaining to	o the work bei	ng completed under thi	s task authorization.								
Period of Services / Période de service:											
Initial Start Date / Date de début initiale :	ril 6, 2017	Initial End Da	te / Date de fin initiale :	Jan 29, 2019							
Extented End Date (See Reason for the Amendment)	/ Date de fin p	prolongée (voir Raison p	our la modification) :								
Option To Extend Initial End Date / Option pour p	orolonger la da	ate de fin initiale									
Travel Requirement(s) / Exigence(s) de voyage :	N/A										
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa, ON	(National Capital Region)								
PART 2 (completed by the Contractor and/or the Technical/Project Aut	nority) / PART	「IE 2 (complété par le Contracte	eur et/ou le Responsable technique / Cha	rge du projet)							

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom		gory / Catégor		Level / Linguistic Profile Niveau Profile linguistiq			Level of Securit de sécurité		PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	n/Software Ard BM Integration ise Service Bus	Bus (IIB) -	3	Englis	h / Anglais	Secret		93080390	+	
B. Estimated Cost / Coût es	<u>stimatif</u>							***************************************		
Category / Catégor	Level /		m Rate /]	Гаих		Level of Effort veau d'effort	Total Cos			

b. Estimated Cost / Cout estimatin				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
lication/Software Architect - specialty in Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	000000000000000000000000000000000000000		\$735,475.00
	\$735,475.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	\$95,611.75			
	\$831,086.75			

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPR	OBATION DE L'AT PAR LE CAN	ADA
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ atteste(nt) que le contenu de cette AT est conforme au	
The client's authorization limit is \$1,200,000.0 When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. $2618 - 12 - 04$	La limite d'autorisation du client est \$1,200,000.0 cor (incluant la TPS/TVH) dépasse cette limite, l'AT doit êtr l'autorité contractante de TPSGC pour autorisation.	
Name of Authorized Client / Nom du client autorisé Date Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature	Signature	
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR	
	· .	
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date



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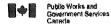
TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

<u>. General Information / Infor</u>	mations <u>génér</u>	<u>ales</u>			
ontract Number / Numéro du con	trat: 47060-152	116/001/EL	•		
ontractor Name / Nom du Contra	cteur : IBM				
ask Authorization (TA) No. / Nº le l'autorisation de tăches (AT) :	Commitment N l'engagement :	o. / N° de Financial Coding / Code financier :		Date of issuance / D d'émission :	ate Response required by / Réponse requise par :
017002530	1000335563	19	113-300-00	April 5, 2017	April 6, 2017
. For Amendments Only / Au	x fins de modif	ication seule	ment		
mendment No. / Nº de la modifica	ation :				
eason for the Amendment / Raisc		ation :			
				· · · · · · · · · · · · · · · · · · ·	
. TA Requirements / Exigenc	ac ralativac à l'	3T	3		
equired Resource(s) / Ressource(s	requise(s)				
			Estimated Level of		
Category / Catégor	le l	Level / Niveau	Effort (days) / Niveau d'effort estimatif	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
			(jours)		
Application/Software Architect - :	Specialty in IBM			Cantal Januari	F
ntegration Bus (IIB) - Enterprise S		3		English / Anglais	Secret
tatement of Work (tasks, deliveral	bles, reports, etc.)	/ Énoncé des tr	avaux (tāches, livrables	; rapports, etc.)	
lease see the attached SOW for d	etails pertaining t	o the work bein	a completed under thi	s task authorization	
			9		
eriad of Services / Période de se	ervice:				
itial Start Date / Date de début in	itiale: Ap	r 6, 2017	Initial End Da	te / Date de fin initiale :	October 31, 2017
③ Option To Extend Initial End Da	ite / Option pour j	prolonger la dat	te de fin înițiale		
Optional End Date(s) /	Date(s) de fin op	tionnelle(s)		Status / Sta	itut
Octob	per 31, 2018			C In effect / en vig	ueur
ravel Requirement(s) / Exigence(s) de voyage :	Travel not	required		
/ork Location(s) / Lieu(x) de traval	istilia I s tilia	333 North	River Road, Ottawa, ON	(National Capital Region)	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
				CONTRACTOR CONTRACTOR CONTRACTOR	
ART 2 completed by the Contractor 480/0	gaha Tisconjska) Projest Au	solb; / PART	IE 2 konsiléé par e Contrad	eju vistau le Responsatile tachnique / Ch	sige du projet)

Page 1 of 2

Name / Nom	Cate	gory / Catégor	•	Level / Niveau		stic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Specialty in II	n/Software An 3M Integration se Service Bus	Bus (88) -	3	Englis	sh / Anglais	Secret		93080390	+
8. Estimated Cost / Coû	t estimatif							***************************************		************
Category / Caté	garie	Level / Niveau		m Rate / I surnalier	laux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
+ lication/Software Archi Integration Bus (IIB) – E Bus (ESB)	Enterprise Service	3						s;	92,000.00	
					£	stimated Cost	t / Coût estimatif	\$.	92,006.00	
	Total	Estimated Trav	el and Livin	g Cost / C	oŭt total	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de	e taxes appliquées	13.000			Applic	able Taxes / T	axes applicables	ş	37,960.00	
				Tota	al Estima	ted Cost / Co	ût total estimatif	\$3	129,960.00	
PART 3 - TA APPRO	Daniel a Daniel	er (v. state of the state of					AR LE CANA		ntractarise de TPSGC	
ertify(ies) that the content of this T he client's authorization limit is \$30 notading GST/MST) is in excess of the precarded to the PWGSC Contraction	A is in accordance with I 20,000.00 . When the va his limit, the TA must be	he conditions of th lue of a YA and its signed by the aud	he Contract. amondmeres	ettesti Laten nd Unclus	s(nt) que lo de d'autori ent la 1PS/1	contenu de cette sation du client e VH) dépasse celt	: AT ast conforms sus st \$200,000.00 . Lorsc	r conditions d pe la valour d		ons mise
Robert Penwar	de ders autorisé 0	Apr. 15	1k, 2017		of Contrac (16 contrac	ting Authority / N	can de	Date 1		
<u> </u>	<u>Addi</u>			Syne	ure					
		RE / PART	IE 4 - SIG	NATUI	RE DU	CONTRAC	TEUR			
PART 4 - CONTRACT	FOR SIGNATU				30.000.000.00	a komunia komuna komunia mo				
PART 4 - CONTRACT								April :	5, 2017	

Page 2 of 2



Public Works and Government Services Services gouvernementaux Canada Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

		EXEMPLE A	Back Company Compa			
A. General Information / Infor	mations généra	iles				
Contract Number / Numéro du con	trat : 47060-152	116/002/EL				
Contractor Name / Nom du Contrac	teur : DONNA CO	ONA INC.				
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No l'engagement ;		nancial Coding / Code	Date of Issuance / Da d'émission :	ate Response required by Réponse requise par :	
2018000107	1000336054		2040060/6001/16100	Apr 24, 2017	Apr 26, 2017	\neg
B. For Amendments Only / Au	x fins de modif	ication seuler	ment			一
Amendment No. / № de la modifica	r					
Reason for the Amendment / Raiso		ation :				
Reason for the Amendment / Naiso	on pour la moune	ation,				
C. TA Requirements / Exigence	es relatives à l'	AT				
Required Resource(s) / Ressource(s)		1.7.				
Category / Categor		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security Niveau(x) de sécurité requis	
Application/Software Architect - Master Data Management (MDM) S	,	3	-	English / Anglais	SECRET	1
Statement of Work (tasks, delivera	bles, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)		
Background: The Canada Border Services Agent Border modernization efforts. The capital projects and the association drive business transformation efformation effo	Information, Scield information technics and alignment and implement tems, projects and gement Service (Factors and UPASS	nce and Techno mology solution t of business sol tation of the Ag d services. In su MDMS), to put li	plogy Branch (ISTB) sup ns. Traditional IT function lutions in portfolios for gency's transformation pport of the above, the n place an Enterprise B	port these efforts with ove ons have been augmented Traveleis, Commercial, Co agenda, ISTB is implement e Common Services Portfol uilding Blocks that can be	rsight and alignment of major with program directorates the mmon and Corporate projects ling an enterprise approach to io Directorate (CSPD) has leveraged by other initiatives	at i. To
Objective:						
To acquire professional services fo	or one Application	/Software Archi	itect Level 3 to perform	the tasks and deliverables	s below.	
Tasks and Deliverables:						
The Contractor must provide the p to be followed by a final product in	professional servic ncorporating com	es to perform t ments of the C	he following tasks and SPD project manager (o	deliver the following proje or their delegates).	ect deliverables, first in draft fo	rmat,
Tasks:						

Page 1 of 4

Provide CBSA with technical expertise and guidance on the following topics:

- · Walk through and document IA best practices to profile data within 2 weeks after setup is complete
- Apply IA best practices to CBSA context within 2 weeks of start date
- · Provide configuration for IA core functions. These functions should be specific to CBSA dataset within 2 weeks of start date
- · Provide IA security configuration: users, roles, access within 2 weeks after setup is complete
- Create proper IA classes and rules using IA desktop client within 3 weeks after setup is complete
- · Provide guidelines, standards and best practices for the use of an IA web client to create additional rules within 2 weeks after setup is complete
- · Review and comment on the CBSA IIS server installation topology within 3 weeks of start date;
- Provide guidelines, standards and best practices for the installation and configuration of information server products for CBSA including WebSphere Information Services Director of Information Server;
- Review and comment on DataStage and QualityStage project version control practices;
- · Provide guidelines, standards and best practices for the installation and configuration of InfoSphere and its integration of IIS components:
- · Review and comment on the IIS security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server environment.
- Review and comment on the MDM infrastructure design supporting the IT Engineering task due on September 30th 2017;
- Review and comment on the MDM Server components hardware sizing;
- Develop industry best practices in performance tuning, load balancing and optimization; strategies for IBM infoSphere MDM Server environment;
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- · Review and comment on CBSA non-functional regulrements;
- Provide adhoc assistance and guidance to the MDM development team;
- · Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s):
- Provide guidance to the project manager for HR planning,
- · Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- · Review and comment on MDM performance tuning; and
- Provide guidelines, standards and best practices for the integration with ESB-IIB, IIS and ISIL

Deliverables:

The Contractor shall provide the following:

- Contractor will deliver the summary document reflecting the IA best practices in CBSA context, installation topology and security setup recommendation within 4 weeks of start date;
- Produce Data Stewardship UI Specs by end of April, 2017;
- · Produce MDM-UPASS BR by end of April, 2017;
- Design MDM environment integrated with IIS server in CBSA data center by end of May, 2017;
- Finish Integrated Prototype by end of May, 2017;
- Provide installation scripts to install MDM Server on different environments by end of May, 2017;
- Produce step by step installation documentation with screenshots by end of June, 2017;
- Produce and/or update MDM, and DPLS ICDs by end of June, 2017;
- Produce MDM-UPASS SR, PDR by end of August, 2017;
- Provide documentation outlining Availability, fail-over and recoverability strategies by end of September, 2017;
- Provide GEC data analysis completed by end of October, 2017;
- Review and update MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by end of October, 2017;
- · Update CDR documentation by end of October, 2017; and
- · Update Data Stewardship UI Specs by end of November, 2017.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio, and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five(5) business days of receipt of the deliverable.

Tievaux publics et Services gouvernementaux Canaria

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

rechnical Environment:							
As defined in Section 12 of the c	ontract number 4706	0-152116/002/EL.					
Constraints:							
At no time and in no way is CBS, or ling (e.g. VPN) be permitted. the contract.	A data to be removed The contractor must co	from CBSA sites, no omply with CBSA in	r will acce ternal sec	ess to or from the Conturity policies, directive	tractor's IT systems thro es, standards, and guide	ough the use of a sessic elines at all times durin	ğ
The CBSA's working hours are b These are core hours and are no	etween 07:00 to 18:00 It representative of the	Monday through F duration of a Cont	riday, exc ractor's w	ept for Statutory Holic ork day.	days where Governmen	nt Offices are closed.	
Reporting Requirements:							
The resource must provide a we reporting period, what work is s The status reports must also be	till outstanding, and a	ny issues or concert	ns that th	e resource wants to id	ientity to the attention	ndertaken during the of the Project Authority	у.
Client Support:							
The contractor will be provided required. CBSA will provide eac	with a CBSA user ID, phones of the buildings of the build	password, workstati ding access pass, ne	on and e- twork acc	mall address and othe count when working i	er materials (supporting n CBSA premises.	documentation) as	
Period of Services / Période de	service:						
nitial Start Date / Date de débu	t initiale : Apr	27, 2017	Initia	l End Date / Date de fl	n Initiale :	Jan 31, 2018	
Extented End Date (See Reason	for the Amendment)	Date de fin proion	gée (voir f	Ralson pour la modific	ation):		
Option To Extend Initial End	Date / Option pour p	rolonger la date de	fin Initiale	:	-		
Travel Regulrement(s) / Exigence	e(s) de voyage :	No					
Work Location(s) / Lieu(x) de tra	vail:	333 North River Capital Region.	Road, Ott	awa, Ontario, K1 A OLE	or an alternative CBSA	location in the Nation	al
ARTHUR STATE AND STATE OF THE S	THE STREET STREET	A COMPANIE PROPERTY	somethy p	r le Contraction eVou le Respon	and a securities (Conside by Duckey	特的問題	
A. Contractor Resource(s) / Note: once approved, only the following resour	Ressource(s) du Cres may provide services under	Ontracteur this TA. / Nota : une fois appro	ouvée, seules l	es ressources suivantes peuvent	fournit des services sous la présent	te AI.	
Name / Nom	Category /	Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Nive de sécurité	PWGSC Security File No. / № du dossier de sécurité TPSGC	
	Application/Soft Specialty in IBN Management (1 Master Data	3	English / Anglais	SECTET	95841252	+
B. Estimated Cost / Coût es	timatif						

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Travaux publics of Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journaller	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Cout estimatif
+ lication/Software Architect - Specialty in 18M Master Data Management (MDM) Server	3			\$337,500.00
			stlmated Cost / Coût estimatif	\$337,500.00
Total E	stimated Trav	el and Living Cost / Cour tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$43,875.00
		Total Estima	ated Cost / Coût total estimatif	\$381,375.00

Total Estimated Cost / Coût total estimatif	\$381,375.00
OBATION DE CAT PARLE CANAD	A
En apposant sa signature sur l'AT, le client autorisé et/ou l'a atteste(nt) que le contenu de cette AT est conforme aux co	autorité contractante de TPSGC
La limite d'autorisation du client est \$300,000,00 . Lorsque (incluant la TPS/TVH) dépasse cette limite, l'AT doit être sig l'autorité contractante de TPSGC pour autorisation.	
NABL CHADDAS Name of Contracting Authority / Norm de	April 27, 2417
Makoi Goddolo	•
	En apposant sa signature sur l'AT, le client autorisé et/ou l'atteste(nt) que le contenu de cette AT est conforme aux co La limite d'autorisation du client est 5300,000,00 . Lorsque (incluant la TPS/TVH) dépasse cette limite, l'AT doit être sig l'autorisé contractante de TPSGC pour autorisation.

Company of the Compan	HALLE SIGNALURE DU CONTRACTEUR	
5	1011	

NAME ACCOUNT EXECUTIVE

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et litre de la personne autorisée à signer au nom de l'entrepreneur

Signature

MPRIL 24 /2017

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Charge du project A. General Information / Informations générales Contract Number / Numéro du contrat : | 47060-152116/002/EL Contractor Name / Nom du Contracteur : DONNA CONA INC. Commitment No. / Nº de Task Authorization (TA) No. / No. Financial Coding / Code Date of Issuance / Date Response required by / de l'autorisation de tâches (AT) : l'engagement : financier: d'émission: Réponse requise par : 2018000107 1000336054 192040060/6001/16100 Dec 20, 2017 Dec 27, 2017 B. For Amendments Only / Aux fins de modification seulement Amendment No. / No de la modification: 1 Reason for the Amendment / Raison pour la modification: The MDM project delivery timelines have changed and new requirements have been presented which requires additional MDM architecture work to be completed. C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Estimated Level of Effort (days) / Niveau Linguistic Profile / Profile Required Level(s) of Security / Category / Catégorie Level / Niveau d'effort estimatif linquistique Niveau(x) de sécurité requis (jours) Application/Software Architect - Specialty in IBM 3 English / Anglais Secret Master Data Management (MDM) Server Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.) Background The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects, To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services. In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS. Objective To acquire professional services for one Application/Software Architect Level 3 to perform the tasks and deliverables below. Tasks and Deliverables The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Tasks

Provide CBSA with technical expertise and guidance on the following topics:

- · Walk through and document IA best practices to profile data within 2 weeks after setup is complete
- Apply IA best practices to CBSA context within 2 weeks of start date
- Provide configuration for IA core functions. These functions should be specific to CBSA dataset within 2 weeks of start date
- Provide IA security configuration: users, roles, access within 2 weeks after setup is complete
- Create proper IA classes and rules using IA desktop client within 3 weeks after setup is complete
- · Provide guidelines, standards and best practices for the use of an IA web client to create additional rules within 2 weeks after setup is complete
- Review and comment on the CBSA IIS server installation topology within 3 weeks of start date;
- Provide guidelines, standards and best practices for the installation and configuration of information server products for CBSA including WebSphere Information Services Director of Information Server;
- Review and comment on DataStage and QualityStage project version control practices;
- Provide guidelines, standards and best practices for the installation and configuration of InfoSphere and its integration of IIS components;
- · Review and comment on the IIS security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on performance tuning, load balancing and optimization strategies for IBM InfoSphere in the context of the MDM Server environment.
- Review and comment on the MDM infrastructure design supporting the IT Engineering
- Review and comment on the MDM Server components hardware sizing;
- · Develop industry best practices in performance tuning, load balancing and optimization; strategies for IBM InfoSphere MDM Server environment;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s);
- Provide guidance to the project manager for HR planning;
- Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- Review and comment on MDM performance tuning; and
- Provide guidelines, standards and best practices for the integration with ESB-IIB, IIS and ISII.
- Provide the MDM solution architecture;
- Provide the MDM ever greening Architecture Solution;

Deliverables

The Contractor shall provide the following:

- Contractor will deliver the summary document reflecting the IA best practices in CBSA context, installation topology and security setup recommendation within 4 weeks of start date;
- Produce an updated Data Stewardship UI Specs by end of February, 2018;
- · Provide installation scripts to install MDM Server on different environments by end of May, 2018;
- Produce and/or update MDM, and DPLS ICDs by end of February, 2018;
- · Provide updated documentation outlining Availability, fail-over and recoverability strategies by end of May, 2018;
- Review and update MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by February 15, 2018;
- Update CDR documentation by February 15, 2018; and
- Provide ever greening and initial load architecture and design documents by end of May 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five(5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Travaux publics et Services gouvernementaux Caeada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Constraints						
At no time and in no way is CBSA data to be removed or ling (e.g. VPN) be permitted. The contractor must cothe contract. The CBSA's working hours are between 07:00 to 18:00. These are core hours and are not representative of the	omply with CBSA i) Monday through	internal se Friday, ex	ecurity policies, directi scept for Statutory Hol	ves, standards, and guidel	ines at all times du	
Language						
The proposed Resource will be required to perform the proposed must be able to communicate orally and in the proposed must be able to communicate orally and in the proposed must be able to communicate orally and in the proposed must be able to communicate orally and in the proposed must be able to communicate orally and in the proposed must be able to communicate or all the proposed must be able to communicate					sh. The individual	
Reporting Requirements						
If a TA has been authorized, the resource must provide was undertaken during the reporting period, what wo attention of the Project Authority. The status reports n template.	ork is still outstand	ling, and a	ny issues or concerns	that the resource wants to	identify to the	
Location of Work						
The work is expected to be performed on CBSA premis the National Capital Region. There is no travel requires				irio, K1A OL8 or an alternal	ive CBSA location i	in
Client Support						
The contractor will be provided with a CBSA user ID, prequired. CBSA will provide each resource with a build					ocumentation) as	
Period of Services / Période de service:						
Initial Start Date / Date de début initiale : Apr 2	27, 2017	Initia	ll End Date / Date de f	in initiale : Jar	131, 2018	
Option To Extend Initial End Date / Option pour pro	olonger la date de	fin initial		**************************************		
Optional End Date(s) / Date(s) de fin optio	onnelle(s)			Status / Statut		
Sep 30, 2018			⊙ In e	effect / en vigueur		
Travel Requirement(s) / Exigence(s) de voyage :	No					
Work Location(s) / Lieu(x) de travail :	333 North River Capital Region.	Road, Oti	tawa, Ontario K1A0L8	or an alternative CBSA loc	ation in the Nation	al
PART 2 (completed by the Contractor and/or the Technical/Project Author	my) / PARTIE 2	(completé pa	r le Contracteur et/ou le Respons	able technique / Chargë du projet)		
A. Contractor Resource(s) / Ressource(s) du Col Note: ance approved, only the following resources may provide services under this	ntracteur	ouvée, seciles à	es ressources suivantes peuvent	purnir des services sous la présente AT		
Name / Nom Category / Ca		Level / Niveau	Linguistic Profile /	Level of Security / Niveau de sécurité	PWGSC Security	



Special	on/Software Ar ty in IBM Maste ement (MDM) S	er Data	3	Engli	sh / Anglais	Secret		95841252	
B. Estimated Cost / Coût estimatif				***************************************					<u> </u>
Category / Catégorie	Level / Niveau		m Rate / ournalier		(days) / N	Level of Effort liveau d'effort atif (jours)	Total Co		
+ Ilication/Software Architect - Specialty in Master Data Management (MDM) Server			***************************************				s	337,500.00	
Application/Software Architect - Specialty in BM Master Data Management (MDM) Server							\$	225,000.00	
				E	stimated Cos	t / Coût estimatii	Ş	562,500.00	1
Tota	l Estimated Tra	vel and Livin	g Cost /	Coût tota	l estimatif de	voyage et de vie		\$0.00	1
Taxe % applied / % de taxes appliquées	s 13.000			Applic	able Taxes / 1	axes applicables		573,125.00	1
			To	tal Estima	ated Cost / Co	ût total estimatil	\$	635,625.00	
PART 3 - TA APPROVAL BY CANA	ADA / PAR'	TIE 3 - AP	PROB	ATION	DE L'AT F	'AR LE CAN	ADA		
signing this TA, the authorized client authority and/or thertify(les) that the cont ent of this TA is in accordance with						le cl ient autorisé et/c e AT est conforme au		ontractante de TPSGC du contrat.	
ne client's authorization limit is \$300,000.00 . When the vincluding GST/HST) is in excess of this limit, the TA must be inwarded to the PWGSC Contracting Authority for authority.	ie signed by the aut		nd (inclu	uant la TPS/	TVH) dépasse cet			de l'AT et ses modifica e client autorisé et trar	
Name of Authorized Client) Nom du client autorise	Ja/s 4/16	<u> </u>		e of Contrac orité contrac	cting Authority / f	Nom de	Date		e ²
Roest Planwarden			Signa	ature	***************************************				
PART 4 - CONTRACTOR SIGNATU	JRE / PART	TIE 4 - SIG	NATU	RE DU	CONTRA	CTEUR			***************************************
MARK COLD HAM ACCOU	NT EVECUTIV	F.	-1	264			Dec.	21,2017	
Name and Title of Individual authorized to sign on behal	If of the Contractor	200.00000000000000000000000000000000000	Sig	nature			Date		



Travaux publics et Government Services Services gouvernmentaux Canada Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project a	Authority) / PART	IE 1 (complété par	le Responsable technique / Chargi	é du projet)			
A. General Information / Infor	mations génér	ales					***************************************
Contract Number / Numéro du con	trat : 47060-152	!116/002/EL					
Contractor Name / Nom du Contrac	teur : DONNA C	ONA INC.					
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N		inancial Coding / Code nancier :	Date of Issuance / D d'émission :		Response required by Réponse requise par :	/
2018000107	1000336054		92040060/6001/16100		Jun 28, 2018		
B. For Amendments Only / Au	x fins de modif	ication seule	ment				
Amendment No. / Nº de la modifica	ition : 2						
Reason for the Amendment / Raiso	n pour la modific	ation :					
The MDM project delivery timeline completed.	s have changed a	nd new require	ements have been pres	ented which requires addit	ional M(DM architecture work to	o be
C. TA Requirements / Exigence	es relatives à l'/	AT			••••		
Required Resource(s) / Ressource(s)	requise(s)						
Category / Catégori	ę	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	8	ed Level(s) of Security / (x) de sécurité requis	ę de la constante de la consta
Application/Software Architect - S Master Data Management (M		3		English / Anglais	Secret	· ·	ŧ
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Enoncé des t	ravaux (tâches, livrables	s, rapports, etc.)			
Background							
The Canada Border Services Agenc Border modernization efforts. The I capital projects and the associated drive business transformation effor	information, Scier information tech	nce and Techno nology solutio	ology Branch (ISTB) sup ns. Traditional IT functio	port these efforts with over ons have been augmented	rsight an with pro	id alignment of major ogram directorates that	. L
To advance the planning, developr the management of its portfolio of			Agency's transformation	on agenda, ISTB is impleme	enting ar	n enterprise approach t	:0
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other	initiatives including the	Entry/Exit (E/E), BioMetric:			
Objective							
To acquire professional services for	one Application/	Software Arch	itect Level 3 to perform	the tasks and deliverables	below.		
Tasks and Deliverables							
The Contractor must provide the pi					ct delive	rables, first in draft form	nat.



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

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Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.



		OMBATION DE TAC	
Constraints			
At no time and in no way is CBSA data to be rem or ling (e.g. VPN) be permitted. The contractor n the contract.	noved from CBSA sites, noust comply with CBSA in	or will access to or from the Contractor's IT sys nternal security policies, directives, standards,	tems through the use of a session and guidelines at all times during
The CBSA's working hours are between 07:00 to These are core hours and are not representative	18:00 Monday through of the duration of a Con	Friday, except for Statutory Holidays where Go tractor's work day.	vernment Offices are closed.
Language			
The proposed Resource will be required to perfo proposed must be able to communicate orally a	orm the work in English. I and in writing in English v	Every individual proposed in its bid will be flue without any assistance and with minimal errors	nt in English. The individual s.
Reporting Requirements			
If a TA has been authorized, the resource must p was undertaken during the reporting period, wh attention of the Project Authority. The status rep template.	nat work is still outstandi	ng, and any issues or concerns that the resource	ce wants to identify to the
Location of Work			
The work is expected to be performed on CBSA the National Capital Region. There is no travel re			an alternative CBSA location in
Client Support			***************************************
The contractor will be provided with a CBSA use required. CBSA will provide each resource with a	r ID, password, workstati building access pass, ne	on and e-mail address and other materials (sup twork account when working in CBSA premise	oporting documentation) as
Period of Services / Période de service:			
nitial Start Date / Date de début initiale :	Apr 27, 2017	Initial End Date / Date de fin initiale :	Jan 31, 2018
extented End Date (See Reason for the Amendme	ent) / Date de fin prolong	gée (voir Raison pour la modification) :	Nov 30, 2018
Option To Extend Initial End Date / Option po	our prolonger la date de	fin initiale	***************************************
ravel Requirement(s) / Exigence(s) de voyage :	No		
Vork Location(s) / Lieu(x) de travail :	333 North River Capital Region.	Road, Ottawa, Ontario K1A0L8 or an alternative	e CBSA location in the National

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

	/ Ressource(s) du Contracteur ources may provide services under this TA. / Nota : une fois app	ouvée, seules l	es ressources suivantes peuvent	fournir des services sous la présente AT.	
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique		PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais	Secret	95841252

B. Estimated Cost / Coût estimatif

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ lication/Software Architect - Specialty in Master Data Management (MDM) Server	3.			\$630,000.00
	\$630,000.00			
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applic	\$81,900.00	
	\$711,900.00			

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPR	ROBATION DE L'AT PAR LE CANADA
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
Robert Privarde 2018-06-26 Name of Authorized Client Nom du client autorise Date	Villeneuve, Julie 3 Date: 2018.06.27 08:38:31 - 04'00' Name of Contracting Authority / Nom de
Robert Pengrade	l'autorité contractante
Signature	Signature

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham Account Executive	Man Man	6/27/2018
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Sig Marure	Date



Public Works and Government Services Canada Trayaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1: (completed by, the : substiculibroject Authority) // PARTIE: 1: (complete per le Responsable (schnique / Chargé du projet)

A. General Information / Informations of	<u>jenerales</u>							
Contract Number / Numéro du contrat :	47060-152116/002/E	L						
Contractor Name / Nom du Contracteur :	DONNA CONA INC).	•					
Task Authorization (TA) No. Nº de l'autorisation de tâches (AT);	Commitment No. Nº de l'engagement :	Financial Code finan	. •	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :			
2018000107	1000336054	1920400060/60	001/10400	Jan 20, 2020	29-Jan-2020			
B. For Amendments Only / Aux fins de	modification seulem	<u>ient</u>			*****			
Amendment No. / Nº de la modification :	5							
Reason for the Amendment / Raison pour la m	odification :							
Amendment #5 is raised for the following: 1) Extend end date from February 23, 2020 to February 23, 2021; 2) Add days total estimated level of effort; 3)Increase total cost from \$1,254,125.00 to \$1,728,125.00 (All applicable taxes extra).								
C. TA Requirements / Exigences relatives à l'AT								
Required Resource(s) / Ressource(s) requise(s)							
Calegory and Level Catégorie et Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de securité requis				
Programmer/Software Developer MastermData Management (MDM) Level 3			Engli	sh / Anglais				
Statement of Work (tasks, deliverables, report	s, etc.) / Énoncé des trav	vaux (tāches, ļivrable	s, rapports, e	tc.)	our contribution of the second se			
See attached / Voir pièce jointe			·	· · · · · · · · · · · · · · · · · · ·				
Period of Services / Période de service:		_						
Initial Start Date / Date de début initiale :	Nov 1,2018	Į.		/ Date de fin initiale :	23-Feb-2021			
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison p	our la modific	ation):				
Option To Extend Initial End Date / Optio	n pour prolonger la date	de fin initiale			yangyyan hasan an khasak Alla ka 10000000000000000000000000000000000			
Optional End Date(s) / Date(s) de fir	optionnelle(s)		St	atus / Statut				
X			O Inje	ffect / en vigueur				
Travel Requirement(s) / Exigence(s) de voyag	n/a							
7-7-7								

Work	Location(s)	1	Lieu(x)	de	travail	,
*****	minominarital	۰	mount of the st		41.40.0.00.00	•

333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complete par le Contracteur et/ou le Responsable technique / Chargé du projet)

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services u	Cost / Ressource(s) nder this TA. / Nota : une fois approuvé	du Contracteur e	et Coût total es peuvent fournir des	estimatif services sous la présente AT	
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		English/Anglais			\$1,728,125.00
			Estimated	Cost / Coût estimatif	\$1,728,125.00
7	otal Estimated Travel ar	ıd Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applical	bles	\$224,656.25
		Total Estir	mated Cost /	Coût total estimatif	\$1,952,781.25
Check applicable Basis of Pa Cocher la Base de Paiement a		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat. La limite d'autorisation du client est 150,000 \$. Lorsque la valeur de l'AT et ses
The client's authorization limit is \$150,000. When the value of a TA and its amendments (excluding Applicable Taxes) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	modifications (excluant les taxes applicables) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation
Name of Technical Authority / Nom de l'autorité techni Date	Name of Contracting Authority / Nom de l'autorité contractante Date
Gen Daroore	Digitally signed by CASTONGUAY KARIEANNE ON: Cros, Orgo, Out-ora-adic, OU-PERSONNEL, SCHALLNUMBER-2019058112701000 + CN-CASTONGUAY KARIEANNE Y KARIEANNE Location: Date: 2002-01-23 09:21:22 Foxt Phantom/PDF Version: 9.4.1
Signature	Signature

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

1				
	MARK COLOHAM ACCOUNT EXECUTIE	Mo	Lamina and the second	Ja 24,2020
-	Name and Title of individual authorized to sign on behalf of the Contractor /	Signature		Date
-	Nom et titre Signature de la personne autorisée à signer au nom de l'entrepreneu	r		



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations of	<u>jénérales</u>						
Contract Number / Numéro du contrat :	47060-152116/002/E	L					
Contractor Name / Nom du Contracteur :	DONNA CONA INC) .					
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :	Financial C Code finan	-	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :		
2018000107	1000336054	1920400060/6001/10400		May 8th, 2020	May 11th, 2020		
B. For Amendments Only / Aux fins de	modification seulem	<u>ent</u>					
Amendment No. / Nº de la modification :	6						
Reason for the Amendment / Raison pour la m	odification :						
Amendment #6 is raised for the following: 1) Exchange resource to continue with an ongoing project from							
C. TA Requirements / Exigences relative	<u>res à l'AT</u>						
Required Resource(s) / Ressource(s) requise(s	s)						
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis		
Programmer/Software Developer - S MastermData Management (MDM) - J Level 3			Englis	sh / Anglais	Secret		
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	cc.)			
See attached / Voir pièce jointe							
Period of Services / Période de service:							
Initial Start Date / Date de début initiale :	Nov. 1st, 2018	Init	ial End Date /	Date de fin initiale :	Feb. 23rd, 2021		
Extented End Date (See Reason for the Amend	dment) / Date de fin prolo	ongée (voir Raison p	our la modific	ation):			
☐ Option To Extend Initial End Date / Option	n pour prolonger la date c	de fin initiale					
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut			
Х			O In E	ffect / en vigueur			
Travel Requirement(s) / Exigence(s) de voyage Work Location(s) / Lieu(x) de travail :		er Road, Ottawa, Ont	ario, K1A 0L8 ional Capital		3SA location		

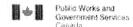
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre Signature de la personne autorisée à signer au nom de l'entrepreneur

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estima
Programmer/Software Developer - Specialty n IBM Master Data Management (MDM) - Java development		English/Anglais			
	1		Estimated	I Cost / Coût estimatif	
	Total Estimated Travel an	d Living Cost / Coût	total estimati	f de voyage et de vie	\$0.0
Taxes % applied # % taxes appliquées	13	Applicable Taxes / 1	Taxes applica	bles	
		Total Estir	nated Cost /	Coût total estimatif	
Check applicable Basis of Pa Cocher la Base de Paiement a	-	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
conditions of the Contract. The client's authorization limit is \$300,000. When the amendments (excluding Applicable Taxes) is in excepte signed by the authorized client and forwarded to the Authority for authorization. DAROUZE TONI TONI	ss of this limit, the TA must	modifications (excluant les taxes app	licables) dépas	0,000 \$. Lorsque la vale se cette limite, l'AT doit é actante de TPSGC pour	être signée par le clien
Date: 20. Jame of Technical Authority / Nom de l'autorité techn	20.09.03 12:00:56 -04'00' ni Date	Name of Contracting A	uthority / Nom c	le l'autorité contractante	Date
Signature	-	Signature	anad by	ALEXANDER	CTEDLIENI
ALEXANDER S	TEPHEN -			:09:15 -04'00	
PART 4 - CONTRACTOR SIGNATU	RE / PARTIE 4 - SIG	GNATURE DU C	ONTRACT	EUR	
Mark Coldham Acc	ount Executive	DocuSigned by:		202	20-09-03
Name and Title of individual authorized to sign on be	half of the Contractor /	Signature FD304C5A97F0424	••		Date

Trevaux publics of Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project)	Authoritys / PART	IE 1 (complete).	or la Responsable technique / Charge	é du projet)		
A. General Information / Infor	mations génér	ales				
Contract Number / Numéro du con	trat : 47060-152	116/002/EL				
Contractor Name / Nom du Contrac	cteur : DONNA C	ONA INC.				***************************************
Task Authorization (TA) No. / Nº	Commitment N	o. / Nº de	Inancial Coding / Code	Date of Issuance / D		
de l'autorisation de táches (AT) :	l'engagement :		înancier :	d'émission :	Réponse requi	ise par :
2018000108	1000336054		192040060/6001/16100			
B. For Amendments Only / Au	x fins de modif	ication seul	ement			
Amendment No. / Nº de la modifica	ation : 1					
Reason for the Amendment / Raiso	n pour la modific	ation:				***************************************
The purpose of this amendment is	to extend the TA	end date in ti	me only as project time-	lines were pushed.		
C. TA Requirements / Exigence	es relatives à l'I	AT				***************************************
Required Resource(s) / Ressource(s)) requise(s)					
Category / Catégori	ie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of S Niveau(x) de sécurité	
Programmer/Software Developer -	Specialty in IBM	3	***************************************	English / Anglais	Secret	
Data Management (MDM) - Java	development	3		crigiish / Anglais] Secret	ļ.
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des	travaux (tåches, livrables	s, rapports, etc.)		
Background						
The Canada Border Services Agency Border modernization efforts. The I capital projects and the associated drive business transformation effor	Information, Scien information technitis and alignment	nce and Techn nology solution of business so	ology Branch (ISTB) sup ons, Traditional IT function olutions in portfolios for	port these efforts with over ons have been augmented Travelers, Commercial, Cor	rsight and alignment o with program director mmon and Corporate p	of major ates that projects.
To advance the planning, developed the management of its portfolio of			e Agency's transformation	on agenda, 1516 is impieme	enting an enterprise ap	proach to
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other	initiatives including the	Entry/Exit (E/E), BioMetric		
Tasks and Deliverables						
The Contractor must provide the pi to be followed by a final product in identify the resources and the respo	corporating com	ments of the C	SPD project manager (d	or their delegates). It is the	Contractor's responsibi	
Tasks						
The resource will provide CBSA with	h technical experi	tise and guida	nce on the following top	oics:		



Travaux publics et Services govvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- Review of MDM detail design document in order to confirm or identify implementation approach;
- · Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each Iteration is to be reviewed with the Project Authority and subject to their approval:
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

Deliverables

- Provide System Use Cases, system requirements for PME due January 31, 2018;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due. August 31, 2018;
- Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due January 31, 2018;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due August 31, 2018;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Travaux publics et Services governmentaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Location of Work							
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.							
Client Support							
The contractor will be provide required. CBSA will provide ear						ocumentation) as	
Period of Services / Période d	le service:		***************************************				
Initial Start Date / Date de début initiale : Apr 27, 2017			Initia	al End Date / Date de f	in initiale :	r 30, 2018	
Extented End Date (See Reason	for the Amendm	ent) / Date de fin prolon	gée (voir	Raison pour la modific	Ser	28, 2018	
Option To Extend Initial End	d Date / Option po	our prolonger la date de	fin initial	e			
Travel Requirement(s) / Exigend	ce(s) de voyage :	N/A	•••••				
Work Location(s) / Lieu(x) de tra	avail:	333 North River Capital Region	Road, Ot	tawa, Ontario, K1A 0L8	3 or an alternative CBSA loo	ation in the Natio	nal
PART 2 (completed by the Contractor a	and/or the Technical/Proje	ct Authority) / PARTIE 2	(complété pa	u le Contracteur et/ou le Respon	rable technique / Chargé du projeti		
A. Contractor Resource(s) All Note: once approved, only the following resource.			wyće, reules i	es ressources suivantes pativant	fournir des services sous la présente AT.		
Name / Nom	Category / Catégorie		Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		3	English / Anglais	Secret	95841023	+
B. Estimated Cost / Coût es	timatif						

Public Works and Government Services Canada Trevaux publics of Services gouvernmentaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Dìem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coút estimatif		
+ grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$474,000.00		
		\$474,000.00				
Total	Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie					
Taxe % applied / % de taxes appliquées	13.000	Applic	\$61,620.00			
	\$535,620.00					

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPR	ROBATION DE L'AT PAR LE CAN	IADA			
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments fincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lo (incluant la TPS/TVH) dépasse cette limite, l'AT doit é l'autorité contractante de TPSGC pour autorisation.				
Name of Authorized Client / Norm du client autorise Signature Date Date	Name of Contracting Authority / Norn de l'autorité contractante Bastien, Josee Deptity signed by Eastern, June Demicroire District page 64000 Signature	Date			
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR				
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signerau nom de l'entrepreneur	Jou P. Buller Signature	Murecu 29, 2018			

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsablé technique / Chaitié du projet)

A. General Information / Inform	nations généi	rales						
Contract Number / Numéro du contr	rat: 47060-15	2116/002/EL				····	****	
Contractor Name / Nom du Contract	eur : DONNA C	ONA INC.						******
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment N l'engagement :				Response required by Réponse requise par :			
2018000108	1000336054	054 192040060/6001/16100 Oct 1, 2018					Oct 5, 2018	**********
B. For Amendments Only / Aux fins de modification seulement								
Amendment No. / Nº de la modificati	ion : 3			***************************************				
Reason for the Amendment / Raison	pour la modific	ation :			***************************************			***************************************
The purpose of this amendment is to		***************************************	n additional days.	••••••				*********
C. TA Requirements / Exigences	relatives à l'	<u>AT</u>						-
Required Resource(s) / Ressource(s) r	equise(s)							
Category / Catégorie	Category / Catégorie Level / Niveau Level / Niveau Level / Niveau Category / Catégorie Linguistic Profile / Profile Required Level(s) of Security / Niveau(x) de sécurité requis (jours)							
Master	Programmer/Software Developer - Specialty in IBM Master 3 English / Anglais Secret Data Management (MDM) - Java development							
Statement of Work (tasks, deliverable	es, reports, etc.)	/ Énoncé des 1	travaux (tâches, livrables	, rappo	orts, etc.)			J
Background The Canada Border Services Agency (Border modernization efforts. The Information projects and the associated in drive business transformation efforts. To advance the planning, developmenthe management of its portfolio of sy	formation, Scien iformation techi and alignment ent and impleme	ice and Techn nology solution of business so entation of the	ology Branch (ISTB) supports. Traditional IT functional IT functions in portfolios for	oort th ons hav Travele	ese efforts with over ve been augmented v ers, Commercial, Con	sight a with pr nmon a	nd alignment of major ogram directorates that and Corporate projects.	
In support of the above, the Commor place an Enterprise Building Blocks th of the Entry/Exit project is dependent	nat can be levera	aged by other	initiatives including the	Entry/	Exit (E/E), BioMetrics	nent Se and UI	ervice (MDMS), to put in PASS projects. The delive	ery
Tasks and Deliverables								
The Contractor must provide the profesor to be followed by a final product incodentify the respective and the respect	rporating comm	nents of the C	SPD project manager (o	r their	delegates), It is the C	ontrac	tor's responsibility to	nat,
Tasks								
The resource will provide CBSA with t	echnical expert	ise and quidar	nce on the following top	ics:				

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- · Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing
 rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis, Each iteration is to be reviewed with the Project Authority and subject to their approval;
- · Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

Deliverables

- Provide System Use Cases, system requirements for PME ongoing to end of TA
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components, ongoing to end of TA:
- · Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due Ongoing to end of TA;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due Ongoing to end of TA;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of TA;
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to Identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.



Travaux publics et Services gouvernementoux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

The work is expected to be pe the National Capital Region. T					ario, K1A 0L8 or an alterna	tive CBSA location i	in
Client Support							
The contractor will be provide required. CBSA will provide ea						documentation) as	
Period of Services / Période	de service:						
Initial Start Date / Date de début initiale : Apr 27, 2017 Initial End Date / Date de fin initiale : Apr 30, 2018							
Extented End Date (See Reaso	on for the Amendo	ment) / Date de fin prolo	ngée (voir	Raison pour la modifi	cation):	b 23, 2019	
Option To Extend Initial Er	nd Date / Option	pour prolonger la date d	e fin initial	e			
Travel Requirement(s) / Exiger	nce(s) de voyage	N/A					
Work Location(s) / Lieu(x) de t	ravail :	333 North Rive Capital Region		tawa, Ontario, K1A 0Li	8 or an alternative CBSA lo	ocation in the Natio	nal
						64 K	
PART 2 (completed by the Contracto	or and/or the Technical/Pro	yect Authority) / PARTIE	2 (complété p	er le Contracteur et/ou le Respon	sable technique / Chargé du projet)		
PART 2 (completed by the Contracto A. Contractor Resource(s) Note: ance approved, only the following reso) / Ressource(s)	du Contracteur					
A. Contractor Resource(s)) / Ressource(s) ources may provide service	du Contracteur				PWGSC Security	

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty in IBM - Master Data Management (MDM) - Java development	3			\$799,875.00
±17		E	stimated Cost / Coût estimatif	\$799,875.00
Total	\$0.00			
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$103,983.75
	\$903,858.75			

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . L (incluant la TPS/TVH) dépasse cette limite, l'AT doit l'autorité contractante de TPSGC pour autorisation.	être signée par le client autorisé et transmise			
Name of Authorized Client Norm disclient autorise Date	Name of Contracting Authority / Nom de l'autorité contractante	Date			
Signature Firman	Signature Villeneuve, Julie	Digitally signed by Villeneuve, Julie 3 Date: 2018.10.01 10:15:17 -04'00'			

MARY COLDHOM ACCOUNTERENTH The full - Monday Oct 17018

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

naturo

nemaly)

Australia / PARTIE 1 (complete par la Bor DART 1

A. General Information / Inform	nations généra	<u>ales</u>						
Contract Number / Numéro du contr	at: 47060-152	116/002/EL						
Contractor Name / Nom du Contract	eur : DONNA CO	ONA INC.						
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No l'engagement :	o. / Nº de	/ Nº de Financial Coding / Code Date of Issuance financier: d'émission :		Date of Issuance / Dad'émission :			•
2018000108	1000336054		192040060/6001/16100 February 11, 2019 Feb				February 15, 2019	
B. For Amendments Only / Aux	fins de modifi	<u>cation seul</u>	<u>ement</u>					
Amendment No. / Nº de la modificat	ion: 4							
Reason for the Amendment / Raisor	n pour la modifica	ation :				•••••		
Amendment #4 is raised for the foll 1) Extend end date from February 23 2) Adc 3)Increase total cost from \$799,875	3, 2019 to Februa days total esti	mated level of						
C. TA Requirements / Exigence	s relatives à l'A	<u>\T</u>						
Required Resource(s) / Ressource(s) r	requise(s)							
Category / Catégorie		Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Estimated Level of Effort (days) / Niveau Linguistic Profile / Profile Required Level(s) of Seculing (Niveau(x) de sécurité required Level(s) of Seculing (Niveau(x) de séculing (Niveau(x) de séc					/
Programmer/Software Developer - S Master Data Management (MDM) - Java		3	3 English / Anglais Secret				+	
Statement of Work (tasks, deliverable		/ Énoncé des	travaux (tâches, livrables	, rappi	orts, etc.)			
See Attached Annex A - Statement o	of Work							
Period of Services / Période de serv	vice:							
Initial Start Date / Date de début initi	ale: Apr	27, 2017	Initial End Da	te / Da	ate de fin initiale :		Apr 30, 2018	
Extented End Date (See Reason for the	ne Amendment) ,	/ Date de fin	prolongée (voir Raison po	our la	modification)		Feb 23, 2020	
Option To Extend Initial End Date	e / Option pour p	rolonger la d	ate de fin initiale					
Travel Requirement(s) / Exigence(s) of	de voyage 🖫	N/A						***************************************
Work Location(s) / Lieu(x) de travail :		333 Nort Capital R	n River Road, Ottawa, On egion	itario,	K1A OL8 or an alterna	tive CE	SA location in the Natio	onal
PART 2 (completed by the Contractor and/or the	ne Technical/Project Auth	ority) / PAR	TIE 2 (complété par le Contract	teur et/ou	u le Responsable technique / Cha	rgé du pro	ojet)	
A. Contractor Resource(s) / Res		***********************	fois approuvée, seules les ressources	sulvante	s peuvent fournir des services so	us la prés	ente AT,	



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile/ Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95841023	+

EstimatedCost/Coûtestimatif		ı		
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$1,254,125.00
development	\$1,254,125.00			
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie				\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$163,036.25

Total Estimated Cost / Coût total estimatif

\$1,417,161.25

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC certify(les) that the content of this TA is in accordance with the conditions of the Contract. atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat. The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à forwarded to the PWGSC Contracting Authority for authorization. l'autorité contractante de TPSGC pour autorisation. Name of Authorized Client / Nom du client autorisé Name of Contracting Authority / Nom de Digitally signed by PENWARDEN ROBERT DN: <=<a, b= pc, ou = ccra-adrc, ou = PERSONNEL, cn = PENWARDEN ROBERT, l'autorité contractante **PENWARDEN** Digitally signed by Villeneuve, Signature Villeneuve, Julie 3 Julie 3 ROBERT serialNuminer 2015069231118149 Date: 2019/04/11 14:31:37 -05'00' Date: 2019.02.13 15:48:38 -05'00'

MARK CONDITION	Abel	feb 12,2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

REQ#: 1000336054-2018000108

STATEMENT OF WORK ANNEX A

Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – MDM– Java development

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, GPF, CARM and eManifest Stabilization projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop industry best practices for solution implementation, integration, and operation in production;

REQ#: 1000336054-2018000108

- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus
 (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the install, configuration and testing of Data Stewardship in all CBSA environments;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

Deliverables

The Contractor shall deliver the following:

- Provide system Use Cases' updates, system requirements updates for MDM ongoing to the end of TA;
- Review and comment on CBSA non-functional requirements;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments ongoing to the end of the TA;
- Review and update MDM data mapping and MDM business functional requirements ongoing to the end of the TA;
- Develop functional business requirements for Enterprise Entity Search component by June 16,
 2019:
- Deliver functional requirements for DSC Split functionality by July 30, 2019;
- Organize set of design and requirement review sessions to review DSC split functionality (September 2019);
- Prepare test scenarios for DSC Split functionality by October 30, 2019;
- Deliver preliminary mapping and high level requirements for CARM initiative by May 15, 2019
- Document results of Dynamic Risking data preparation phase and MDM ingestion results by April 30, 2019

REQ#: 1000336054-2018000108

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

REQ#: 1000336054-2018000108

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

A. Contractor Resource(s) / Ressource(s) du Contracteur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authori	ty) / PARTI	E 1 (complété par	le Responsable technique / Chai	rgé du proje	et)			
A. General Information / Informat	ions généra	ales .						
Contract Number / Numéro du contrat :	47060-152	116/002/EL						
Contractor Name / Nom du Contracteur	: DONNA CO	ONA INC.						
* *	mmitment No		inancial Coding / Codo nancier :	е	Date of Issuance / Dad'émission :	ate	Response required b Réponse requise par	
	00336054	1	92040060/6001/1610	0	Oct 24, 2019		Oct 31, 2019	
B. For Amendments Only / Aux fin	s de modifi	ication seule	ement					
Amendment No. / Nº de la modification	: 5							
Reason for the Amendment / Raison po	ur la modifica	ation :						
Amendment #5 is raised for the followir 1) Extend end date from February 23, 20 2) Add : c 3)Increase total cost from \$1,254,125.00	020 to Februa lays total esti	mated level of	•					
C. TA Requirements / Exigences re	latives à l' <i>l</i>	<u>AT</u>						
Required Resource(s) / Ressource(s) requ	uise(s)							
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Nivea d'effort estimatif (jours)		uistic Profile / Profile linguistique		ed Level(s) of Securit u(x) de sécurité requis	
Programmer/Software Developer - Spec Master Data Management (MDM) - Java deve		3		E	English / Anglais			+
Statement of Work (tasks, deliverables,	reports, etc.)	/ Énoncé des t	ravaux (tâches, livrabl	es, rapp	orts, etc.)			
See Attached Annex A - Statement of W	ork/							
Period of Services / Période de service	2:							
Initial Start Date / Date de début initiale	: Арг	r 27, 2017	Initial End D	Date / Da	ate de fin initiale :		Apr 30, 2018	
Extented End Date (See Reason for the A	Amendment)	/ Date de fin p	rolongée (voir Raison	pour la	modification):		Feb 23, 2021	
Option To Extend Initial End Date / C	Option pour p	orolonger la da	ite de fin initiale					
Travel Requirement(s) / Exigence(s) de v	oyage :	N/A						
Work Location(s) / Lieu(x) de travail :		333 North Capital Re	River Road, Ottawa, C gion	ntario, l	K1A 0L8 or an alterna	tive CB	SA location in the Na	tional
PART 2 (completed by the Contractor and/or the Te	chnical/Project Auti	nority) / PART	TIE 2 (complété par le Contra	icteur et/ou	le Responsable technique / Ch	argé du pro	ojet)	

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais			+

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$1,728,125.00
		E	stimated Cost / Coût estimatif	\$1,728,125.00
Total E	stimated Trav	rel and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$224,656.25
,		Total Estima	nted Cost / Coût total estimatif	\$1,952,781.25

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

Signature	Signature
DAROUZE TONI Digitally signed by DAROUZE TONI Date: 2020.03.31 07:49:29 -04'00'	l'autorité contractante Michaud, Daniel Ouglishy signed by Michaud, Daniel C = CA Ougle 2003 60 61 62 729 60 4000
Name of Authorized Client / Nom du client autorisé Date	Name of Contracting Authority / Nom de Date
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-04-06
Name and Title of individual authorized to sig de la personne autorisée à signer au nom de l'		Signature B384C5A97F0424	Date



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations of	<u>jénérales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC).			
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :	Financial Code finan	-	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
2018000107	1000336054	1920400060/60	001/10400	May 8th, 2020	May 11th, 2020
B. For Amendments Only / Aux fins de	modification seulem	nent			
Amendment No. / Nº de la modification :	6	<u>•11.5</u>			
Reason for the Amendment / Raison pour la m	nodification ·				
·					
Amendment #6 is raised for the following: 1) Exchange resource to continue with an		to)		
C. TA Requirements / Exigences relative	ves à l'AT				
Required Resource(s) / Ressource(s) requise(s)					
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	_	c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - S MastermData Management (MDM) - J Level 3		V,	Englis	sh / Anglais	Secret
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	tc.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	Nov. 1st, 2018	Init	tial End Date /	/ Date de fin initiale :	Feb. 23rd, 2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prok	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	າ pour prolonger la date ເ	de fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut	
Х			O In E	ffect / en vigueur	
Travel Requirement(s) / Exigence(s) de voyage					
Work Location(s) / Lieu(x) de travail :	333 North Rive		tario, K1A 0L8 tional Capital I	B or an alternative CB Region	SA location

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₩.	٩r	41	- 2	(0	com	nle:	ed l	bv t	he i	Con	trac	tor	and	t/or	the	$T\epsilon$	ech	nica	I/P	oie	ct A	Auth	norit	v) i	м	4₹	ĸ	88		-	40	(cc	mr	dét	é n	ar	e C	on	trac	teu	r et	้ดม	le R	espo	nsa	ble t	ech	niau	e / (Cha	mé	du n	roie	et)	
	٩r	31		(c	com	ple:	ed l	by t	he i	Con	trac	tor	and	d/or	the	Τe	ech	nica	I/Pi	oje	ct A	Auth	norit	y) <i>i</i>	۲,	Å.	Κ		IC			(cc	mp	olét	é p	ar	e C	on	trac	teu	r et.	ou l	le R	espo	nsa	ble t	ech	niqu	e / (Cha	rgé	du p	roje	et)	

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services un					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty n IBM Master Data Management (MDM) - Java development		English/Anglais	;	NAMES AND ASSOCIATION OF THE PROPERTY OF THE P	\$1,728,125.00
			Estimated	Cost / Coût estimatif	\$1,728,125.00
Т	otal Estimated Travel an	d Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applical	bles	\$224,656.25
		Total Esti	mated Cost /	Coût total estimatif	\$1,952,781.25
Check applicable Basis of Pay Cocher la Base de Paiement ap	•	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
DAROUZE TONI TONI Date: 2021	s of this limit, the TA must e PWGSC Contracting igned by DAROUZE 0.09.03 12:00:56 -04'00'	modifications (excluant les taxes app autorisé et transmise à	olicables) dépass à l'autorité contra	D,000 \$. Lorsque la valei se cette limite, l'AT doit é ctante de TPSGC pour a Digitally 4gnet by KNCX JOSH Discress Orge, Out-cress-autr, Out-f SERIALANDER-2019200 f00503499 Respach lagre to the terms defined by Losation your giangin boation bere Date: 2000-09-04 07 23-5. Ford PhartomFOF Version, 9-7.0	ètre signée par le client autorisation
Name of Technical Authority / Nom de l'autorité techni	Date	Name of Contracting A	uthority / Nom d	e l'autorité contractante	Date
Signature		Signature			
PART 4 - CONTRACTOR SIGNATUR	RE / PARTIE 4 - SIG	GNATURE DU C	ONTRACT	'EUR	
Mark Coldham Acco	ount Executive	Maell		202	20-09-03
Name and Title of individual authorized to sign on beha Nom et titre Signature de la personne autorisée à sign		Signature Signature			Date



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TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

A. General Information / Infor	mations génér	ales					
Contract Number / Numéro du con	trat : 47060-152	116/002/EL			Control of the Contro		
Contractor Name / Nom du Contrac	cteur : DONNA Co	ONA INC.				O	
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment N		Financial Coding / Code financier :		Date of Issuance / Date d'émission :	até Response require	•
2018000108	1000336054		192040060/6001/16100		Apr 24, 2017	Apr 26, 2017	
B. For Amendments Only / Au	x fins de modif	ication seu	lement				
Amendment No. / Nº de la modifica	ation:						
Reason for the Amendment / Raiso	L	ation :					
	,				· · · · · · · · · · · · · · · · · · ·		
	·						
C. TA Requirements / Exigence	es relatives à l'/	AT					
Required Resource(s) / Ressource(s)		_					
Category / Catégori	ie	Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Ling	guistic Profile / Profile linguistique	Required Level(s) of Sect Niveau(x) de sécurité rec	
Programmer/Software Developer - Master Data Management (MDM) - Java		3			English / Anglais	Secret	
Statement of Work (tasks, deliveral		/ Énoncé des	travaux (tāches, livrables	s, rapp	ports, etc.)		
Background: The Canada Border Services Agence Border modernization efforts. The capital projects and the associated drive business transformation effort advance the planning, developme management of its portfolio of sys undertaken the Master Data Manai including the Entry/Exit (E/E), BioM foundational components found in	Information, Scier Information tech rts and alignment nt and Implement tems, projects and gement Service (N letrics and UPASS	nce and Techi nology soluti of business s tation of the A d services. In ADMS), to pur	nology Branch (ISTB) sup ons. Traditional IT function olutions in portfolios for Agency's transformation support of the above, the tringlace an Enterprise B	port tons had a general contract to the contra	these efforts with over ave been augmented elers, Commercial, Cor da, ISTB is implementi nmon Services Portfol to Blocks that can be li	rsight and alignment of m with program directorate mmon and Corporate pro- ing an enterprise approac io Directorate (CSPD) has everaged by other initiati	ajor s that ects. T h to the
Objective:							
To acquire professional services for	r one Application,	/Software De	veloper Level 3 to perform	m the	tasks and deliverable	s below.	
Tasks and Deliverables:							
The Contractor must provide the p to be followed by a final product in	rofessional servic corporating com	es to perform ments of the	the following tasks and CSPD project manager (c	delive or the	er the following projec ir delegates).	ct deliverables, first in dra	ft forma
Tasks:			•				
Provide CBSA with technical expert	tise and quidance	On the follow	dos tomicai				

Page 1 of 4

- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- · Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary:
- · Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidelines, standards and best practices for the install, configuration and testing of MDM products to all CBSA environments;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to eManifest YT environment by August 31, 2017;
- Design and develop IBM MDM server solution components including web service customizations and user interface customizations using Java technologies:
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL) by August 31, 2017;
- Provide guidance with the configuration of RDL for production sizing by August 31, 2017;
- Review and comment on the MDM Server components hardware sizing;
- Provide guidelines, standards and best practices for IBM MDM implementation. Until end of the Task Authorization (TA);
- · Review, comment and update MDM data mapping and MDM business functional requirement;
- Provide guidance to the project manager for HR planning, Until the end of the TA; and
- Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores.

Deliverables:

The Contractor shall provide the following:

- Design eMan MDM database migration strategy by April 30, 2017;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments ongoing until the and of the TA:
- Provide guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing until the end of the TA;
- Develop MDM high level design and detail design documents by April 30, 2017;
- Review and comment on CBSA non-functional requirements by May 5, 2017;
- Review and update Critical Design Review (CDR) documentation by October 31, 2017;
- Develop System requirements, System Use Cases by May 12, 2017;
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations. Ongoing until the end of the TA;
- Develop, integrate and test MDM components working with an approved interchange data format. Ongoing until the end of the TA; and
- Develop MDM server solution component packaging and promotion strategy document by May 31, 2017.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework. All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the Items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment:

As defined in Section 12 of the contract number 47060-152116/002/EL

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

Public Works and Travaux publics et Government Services Services gouvernentaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

The CBSA's working hours are b	etween 07:00 to 18:00 N	londay through I	riday, exc	ept for Statutory Holic	days where Government	Offices are closed.	
These are core hours and are no	ot representative of the o	iuration of a Cont	tractor's w	ork day.			
Reporting Requirements							
The resource must provide a we reporting period, what work is s The status reports must also be	still outstanding, and any	y issues or concer	ns that th	e resource wants to id	lentify to the attention o	dertaken during the f the Project Authori	ty.
Client Support							
The contractor will be provided required. CBSA will provide eac	l with a CBSA user ID, par h resource with a buildin	ssword, workstati ng access pass, ne	on and e- twork acc	mail address and othe ount when working in	er materials (supporting on CBSA premises.	documentation) as .	
Period of Services / Période de	e service:						
Initial Start Date / Date de débu	t Initiale : Apr 27	, 2017	Initial	End Date / Date de fi	n initiale:	pr 30, 2018	
Extented End Date (See Reason	for the Amendment) / D	ate de fin prolon	gée (voir f	Raison pour la modific	ation) ;		
Option To Extend Initial End	Date / Option pour proi	longer la date de	fin initiale				
Fravel Requirement(s) / Exigenc	e(s) de voyage ;	No					
Nork Location(s) / Lieu(x) de tra	vail:	333 North River Capital Region.	Road, Ott	awa, Ontario, K1 A 0L8	or an alternative CBSA l	ocation in the Nation	nal
				i int de principio de la comi	on in section in a control of the project		ia , j
A. Contractor Resource(s) / Note: once approved, unly the following resour			ouvée, seules la	es ressources suivantes peuvent f	ournir des services sous la présente	AT.	
Name / Nom	Category / Ca	tégori e	Level / Niveau		Level of Security / Nivea de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Softwa Specialty In IBN Data Management developm	M Master (MDM) - Java	3	English / Anglais	SECRET	95841023	+
B. Estimated Cost / Coût es	timațif		·				

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TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$474,000.00
		Ε.	stimated Cost / Coût estimatif	\$474,000.00
Total E	stimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applica	able Taxes / Taxes applicables	\$61,620.00
		Total Estima	ted Cost / Coût total estimatif	\$535,620.00

Taxe % applied / % de taxes appliquées	13.000		Applicable Taxes / Taxes applicables	\$61,620.00	
	البر المناطقة في	,	Total Estimated Cost / Cout total estimatif	\$535,620.00	
PARTINETA APPROVANTE CANA	DA/MAN	(E3-APP)	OBATION DE L'AT PAR LE CANAD	A	
Gy signing this TA, the authorized client authority and/or the certifylles] that the content of this TA is in accordance with it			En apposant sa signature sur l'AT, le client autorisé et/ou l'a atteste(nt) que le contenu de cette AT est conforme aux co		
The client's authorization limit is \$300,000.00 . When the val fincluding G5T/HST) is in excess of this limit, the TA must be a forwarded to the PWGSC Contracting Authority for authoriza	signed by the auth		La limite d'autorisation du client est \$300,000,00 . Lorsque l (incluant la TPS/IVH) dépasse cette limite, l'AT doit être sigi l'autorité contractante de TPSGC pour autorisation.		
Name of Authorized Client I Nom du client autorise Da	pril 25 3	PUIT_		10r1/27,2017	
M			Signature had ad		
PARTE CONTRACTO	or V	ta zena	ATURE DIL CONTRACTEUR		

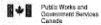
PARTE CONTRACTO	E PROTEA	- SIGNATURE (U CONTRA	ACTEUR

MARK COLDHAM ACCOUNT EXECUTURE	•
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et iltre	Sig
de la personne autorisée à signer au nom de l'entrepreneur	



PART 1 normalisted by the Technical Project A	arasys / PARTI	E 1 (2004)110 3 47	e Suspensiable technique / Charge	du projeti				
A. General Information / Inform	mations génér	ales						
Contract Number / Numéro du cont	rat: 47060-152	2116/001/EL						
Contractor Name / Nom du Contrac	teur ; IBM							
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment N l'engagement :		nancial Coding / Code nancier :	Date of Issuance / D d'émission :	late Response required Réponse requise p			
2018000184	1000335562	15	5050020	May 6, 2017	May 9, 2017			
3. For Amendments Only / Aux	(fins de modif	ication seule	ment					
Amendment No. / N° de la modifica	tion:							
Reason for the Amendment / Raison	n pour la modific	ation :						
C. TA Requirements / Exigence	s relatives à l'i	AT						
iequired Resource(s) / Ressource(s)	requise(s)							
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Secu Niveau(x) de sécurité requ			
Programmer/Software Develope Operational Decision Manag	3		English / Anglais	Secret	T			
Statement of Work (tasks, deliverat	oles, reports, etc.)	/ Enoncé des ti	avaux (tāches, livrables	i, rapports, etc.)				
Please see the attached SOW for de	etails pertaining t	o the work bein	ng completed under thi	is task authorization.				
Period of Services / Période de se	rvice:							
initial Start Date / Date de début ini	tiale : Mi	зу 10, 2017	Initial End Da	te / Date de fin initiale :	October 31, 201	7		
Option To Extend initial End Da	te / Option pour	prolonger la da	te de fin initiale					
Optional End Date(s) /	Date(s) de fin op	tionnelie(s)		Status / St	atst			
Octob	er 31, 2018			○ In effect / en vis	gueur	-		
Travel Requirement(s) / Exigence(s)	de voyage :	Travel not	required					
Work Location(s) / Lieu(x) de travall		333 North	River Road, Ottawa, ON	l (National Capital Region))			
		i						

Page 1 of 2



Traveracoubles et Services governmentare Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

	Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / № du dossier de sécurité TPSGC	
l		Programmer/Software Developer - Specialty in Operational Decision Manager (ODM)	3	English / Anglais	Secret		

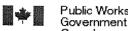
Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
3			\$285,600.00
		Estimated Cost / Coût estimati	f \$285,600.00
stimated Tra	vel and Living Cost / Coūt tot	al estimatif de voyage et de vid	\$0.00
13.000	Appli	cable Taxes / Taxes applicable	\$ \$37,128.00
	Total Estir	iated Cost / Coût total estimati	f \$322,728.00
	Niveau 3	Niveau journalier 3. Estimated Travel and Living Cost / Coüt tot 13.000 Appli	Level / Per Diem Kate / Taux (days) / Niveau d'effort estimatif (jours) 3 Estimated Cost / Coût estimatif de voyage et de vic

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC
cettify[ies] that the content of this TA is in accordance with the conditions of the Contract.	atteste(nti) que le contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$305,000.00. When the value of a TA and its amendments lincluding GST#HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. Robert Penulandan Name of Authorized Client Name of Client authorized Date Labourt Lawrenden Signature	La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications fincluent la TPS/TMB dépasse cette limite, TAT dost être signée par le client autorisé et transmise l'autorisé contractante de 1996C pour autorisation. ABIL

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
Authorized Seller		May 11, 2017
State of the state		
Name and Title of Individuel authorized to sign on behalf of the Contractor / Nom et titre	Sgnaluse	Dale
de la personne autorisée à signer au room de l'entregreneur	그는 그래, 동요를 가게 되는 이렇게 되어 되었다.	



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Informations	générales				
Contract Number / Numéro du contrat :	47060-152116/002/E	L	ing.		
Contractor Name / Nom du Contracteur :	DONNA CONA IN	C.			
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial Coding Date of Issuance Code financier : Date d'émission :		Response required by Réponse requise d'ici le :	
2018000634	1000337353	1920400060/6001/10400 J		Jan 18, 2020	29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulen	nent			
Amendment No. / Nº de la modification :	4				
Reason for the Amendment / Raison pour la n	nodification :				
Amendment #4 is raised for the following 1) Extend end date from February 23, 20 2) Add date date from date date from date date date date date date date date	20 to February 23, 20 ays total estimated lev	21; /el of effort; plicable taxes extr	a).		
C. TA Requirements / Exigences relati	ves à l'AT				
Required Resource(s) / Ressource(s) requise(s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - Spe IBM Master Data Management (MDM) - Level 3	cialty in Specialty in Java Development		Englis	sh / Anglais	
Statement of Work (tasks, deliverables, report	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	c.)	: :
See attached / Voir pièce jointe					
Period of Services / Période de service:				-	
Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Amen	Aug 16,2017		•	Date de fin initiale :	23-Feb-2021
			our la modifica	ation):	
Option To Extend Initial End Date / Option Optional End Date(s) / Date(s) de fin		de fin initiale	_		
	optionnelie(s)		Sta	tus / Statut	
X			O In Ef	fect / en vigueur	
Travel Requirement(s) / Exigence(s) de voyage	n/a				

nvelope ID: 2D45708A-63EA-452D-9630-A	71211 0302L1					
Vork Location(s) / Lieu(x) de travail :	333 North Rive	SA location				
PART 2 (completed by the Contractor and/or the Technical/Project	t Authority) / PARTIE 2 (or	omplété par le Contracteur et/ou	le Responsable techn	ique / Chargé du projet)		
Contractor Resource(s) and Estimated ote: once approved, only the following resources may provide services us	Cost / Ressource(s)	du Contracteur e	et Coût tota es peuvent fournir des	l estimatif services sous la présente AT		
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif	
Programmer/Software Developer - Specialty n IBM Master Data Management (MDM) - lava Development		English/Anglais	•			
			Estimated	Cost / Coût estimatif		
-	Total Estimated Travel ar	nd Living Cost / Coût	total estimati	f de voyage et de vie	\$0.00	
Taxes % applied # % taxes appliquées	13	3 Applicable Taxes / Taxes applicables				
		Total Esti	mated Cost /	Coût total estimatif		
Check applicable Basis of Pa Cocher la Base de Paiement a	•	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :		
PART 3 - TA APPROVAL BY CANA By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract. The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in exce be signed by the authorized client and forwarded to the Authority for authorization.	/or the PWGSC Contracting ccordance with the value of a TA and its so of this limit, the TA must	En apposant sa signat TPSGC atteste(nt) que La limite d'autorisation modifications (excluant les taxes ap	ture sur l'AT, le de le contenu de la du client est 15 plicables) dépas		ux conditions du contrat. ur de l'AT et ses être signée par le client	
Name of Technical Authority / Nom de l'autorité tech		Michaud Danie	Illy signed by: Michaud, Il N = Michaud, Daniel C = D = GC OU = PWGSC-	de l'autorité contractante	Date	
PART 4 - CONTRACTOR SIGNATU	JRE / PARTIE 4 - S	GNATURE DU (CONTRAC	TEUR		

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre Signature de la personne autorisée à signer au nom de l'entrepreneur Signature

Trayaux outrics et Services goviernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Au	uthority) / PART	IE 1 (complete p	v la Rasponsable technique / Charp	ië du projet)			
A. General Information / Inform	nations génér	ales	AND SERVICE OF THE PROPERTY OF	<u>union de la companya del companya de la companya del companya de la companya de </u>	-, *		
Contract Number / Numéro du contr	rat: 47060-152	2116/002/EL					
Contractor Name / Nom du Contract	teur : Donna Co	nna Inc.				And the state of t	
	Commitment No		Financial Coding / Code	Date of Issuance / D		sponse required ponse requise pa	
2018000634	1000337353		192040060/2001/16100		—— i — :	nuary 12, 2018	
B. For Amendments Only / Aux	fins de modif	ication seul	ement				6
Amendment No. / Nº de la modificati	ion: 1						weddon ac mad web William
Reason for the Amendment / Ralson	<u> </u>	ation :	<u>, Tagair and discrete group, decreased for the mangement course</u>	MARA, ALL ROUGH, PARIOLOGICA - ARE ALL LOS CONTÁNIOS OF STORM AND AREA CONTÓNIOS OF ST	mercania de la composição	-	-
The MDM project delivery timelines be completed until all contentment	have changed a		rements have been pres	ented which requires addit	ional MDM	Development w	ork to
C. TA Regulrements / Exigences	s relatives à l'	AT					
Required Resource(s) / Ressource(s) r		(2.1) -					
Category / Categorie	· · · · · · · · · · · · · · · · · · ·	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique		.evel(s) of Securi de sécurité requ	
Programmer/Software Developer - S Master Data Management (MDM) - Java d				English / Anglais	Secret		+
Statement of Work (tasks, deliverable	المتعدد والمتعدد والمتعدد المتعدد والمتعدد والمتعدد والمتعدد والمتعدد والمتعدد والمتعدد والمتعدد والمتعدد	/ Énoncé des	travaux (tâches, livrable:	s, rapports, etc.)			ainteined.
Title				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Programmer / Software Developer -	· Level 3 – MDM-	- Java develop	ment		Ni.		
Background					5		
The Canada Border Services Agency Border modernization efforts. The In capital projects and the associated in drive business transformation efforts	nformation, Scien nformation tech	nce and Techn nology solutio	iology Branch (ISTB) sup ons, Traditional IT function	port these efforts with over ons have been augmented	rsight and a with progra	llignment of maj am directorates	jor that
To advance the planning, developmente management of its portfolio of s				on agenda, ISTB (s Impleme	enting an er	Nerprise approa	ch to
In support of the above, the Commo place an Enterprise Building Blocks ti of the Entry/Exit project is dependen	that can be lever	aged by other	r initiatives including the	e Entry/Exit (E/E), BioMetric			
Objective			in the second			Alleria Bulletine	
To acquire professional services for o	one Application/	Software Dev	eloper Level 3 to perfor	m the tasks and deliverable	s below.		
Tasks and Deliverables	Y 4						

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and quidance and development support, ongoing until the end of the TA, on the following:

- Parficipate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- · Review, modify and update service or solution design, as necessary;
- · Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service-Bus (ESB);
- · Provide guidelines, standards and best practices for the deployment of Application code, including customizations,
- · Provide guidance to package a fixed or enhanced solution for redeployment;
- · Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the Install, configuration, development and testing of Data Stewardship in all CBSA environments;
- · Develop, integrate and test MDM components working with an approved interchange data format,
- · Provide guidance to the project manager for HR planning.
- Design and Implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- · Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse
 process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Create Data Steward tasks and new flows, including development of new and changes to the Data Stewardship User Interface, to maintain master record and Update/Refresh reference data by November, 30, 2018;
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Design and Implement data cleansing for Data Stewardship by November, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Review and comment on CBSA for BPM and Data Stewardship non-functional requirements by September 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018;
- · Document MDM Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance testing phase from June 1 to September 31 2018.
- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints		Ariatoria (Aria) de la suita en conservar en espera de la constitución de la constitución de la constitución d	etenethensissä sinn metrikistänin	ili tila ilika kananga ejetiya ali ya kananga kananga kananga kananga kananga kananga kananga kananga kananga k		
At no time and in no way is CBS or ling (e.g. VPN) be permitted. the contract. The CBSA's working hours are b These are core hours and are no	The contractor must cor between 07:00 to 18:00 M	mply with CBSA i Monday through	nternal se Friday, ex	curity policies, directi cept for Statutory Hol	ves, standards, and guideli	nes at all times during
Language						
The proposed Resource will be proposed must be able to comm						h. The individual
Reporting Requirements						
If a TA has been authorized, the was undertaken during the repo attention of the Project Authori template.	orting period, what worl	k is still outstand	ing, and a	ny Issues or concerns	that the resource wants to	identify to the
Location of Work						· · · · · · · · · · · · · · · · · · ·
The work is expected to be perf the National Capital Region. The					rio, KTA OL8 or an alternat	ive CBSA location in
Client Support						
The contractor will be provided required. CBSA will provide each						ocumentation) as
Period of Services / Période de	service:					
Initial Start Date / Date de début	Initiale: Date o	f TA Award	Initia	l End Date / Date de f	n initiale : Fet	oruary 23, 2018
Extented End Date (See Reason I	for the Amendment) / D	ate de fin proion	gée (voir	Raison pour la modific	ration): Jan	uary 31, 2019
Option To Extend Initial End	Date / Option pour prol	onger la date de	fin Initiale)		
Travel Requirement(s) / Exigence	e(s) de voyage :	N/A	1/24-14			
Work Location(s) / Lleu(x) de trav	vall :	355 North River	Road, Ott	awa, Ontario K1A 0L8		
PART 2 (completed by the Contractor an	d/or the Technical/Project Authorit	, / PARTIE 2	(complété pa	r le Contracteur et/où le Respon	able technique / Chargé dis projet	
A. Contractor Resource(s) / Note: once approved, only the following resource			nivás, seules la	s ressources sulvantes peuvent	oumir des services sous la présente AT.	<u>anny itan'i Parita dia mandria dia dia dia dia dia dia dia dia dia d</u>
Name / Nom	Category / Cat	égorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Softwar Specialty in IBM Data Management (i developme	Master MDM) - Java	3	English / Anglais	Secret	95866806
B. Estimated Cost / Coût est	imatif			<u>, , , , , , , , , , , , , , , , , , , </u>		

Category / Catégorie	Level / Níveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
AMENDMENT 001 Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$418,700.00
			stimated Cost / Coût estimatif	\$671,500.00
	Stimated Trave	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$87,295.00
·	e e e e e e e e e e e e e e e e e e e	Total Estima	nted Cost / Coût total estimatif	\$758,795.00

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized		
certify(les) that the content of this		

The cilent's authorization limit is \$300,000.00. When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

COLDHAM Name and Title of individual authorized to sign on behalf of the Contractor / Nomet title

de la personne autorisée à signet au nom de l'entrepreneur

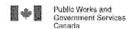
ACCOUNT BUEC

Jan. 8,2018

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet) A. General Information / Informations générales 47060-152116/002/EL Contract Number / Numéro du contrat : Contractor Name / Nom du Contracteur : Donna Conna Inc. Task Authorization (TA) No. / Nº Commitment No. / Nº de Financial Coding / Code Date of Issuance / Date Response required by / de l'autorisation de tâches (AT) : l'engagement : financier: d'émission: Réponse requise par : 2018000634 192040060/2001/16100 1000337353 January 15, 2019 January 22, 2019 B. For Amendments Only/Aux fins de modification seulement Amendment No. / Nº de la modification : 2 Reason for the Amendment / Raison pour la modification : Amendment#2 The MDM project delivery time lines have changed and new requirements have been presented which requires additional MDM Development work to be completed until all contentment is delivered. Therefore, extending the end date from January 31, 2019 to February 23, 2019 and add an additional days. TA value will increase by \$39,500.00 for a total value of \$711,000.00 (All applicable taxes not included). C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Estimated Level of Effort (days) / Niveau Linguistic Profile / Profile Required Level(s) of Security / Category / Catégorie Level / Niveau d'effort estimatif linguistique Niveau(x) de sécurité requis (jours) Programmer/Software Developer - Specialty in IBM 3 English / Anglais Master Secret Data Management (MDM) - Java development



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)

Title

Programmer / Software Developer - Level 3 - MDM- Java development

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.



Traveux publics et Services gouvernementaux

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- Provide guidelines, standards and best practices for the install, configuration, development and testing of Data Stewardship in all CBSA environments:
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
 party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM Un-collapse process, Split process and validation process by April 15,
- Create MDM processes and services including but not limited to: Un-collapse and Split by September 31, 2019;
- Create Data Steward Tasks and new flows, including development of new and changes to the Data Stewardship User Interface, to maintain master record and Update/Refresh reference data for commercial parties by December. 30, 2019;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes for Split and commercial DSW by July 30, 2018;
- Review and comment on CBSA for BPM and Data Stewardship non-functional requirements by September 15, 2018;
- Document MDM Commercial Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance-testing phase from October 1, 2019 to January 31 2020.

All deliverables must be provided in conformance with CBSA's standard desktop operating software, which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Period of Services / Période de service:						
Initial Start Date / Date de début initiale :	August 16, 2017	Initial End Date / Date de fin initiale :	February 23, 2018			
Extented End Date (See Reason for the Amendme	nt) / Date de fin prolor	ngée (voir Raison pour la modification) :	February 23, 2019			
Option To Extend Initial End Date / Option po	ur prolonger la date de	fin initiale				
Travel Requirement(s) / Exigence(s) de voyage :	N/A					
Work Location(s) / Lieu(x) de travail :	355 North Rive	355 North River Road, Ottawa, Ontario K1A 0L8				

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

) / Ressource(s) du Contracteur ources may provide services under this TA. / Nota : une fois appr	ouvée, seules l	es ressources sulvantes peuvent f	ournir des services sous la présente AT.		
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile/ Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95866506	+

B. Estimated Cost/Coûtestimatif

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
AMENDMENT 001 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$418,700.00
AMENDMENT 002 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$39,500.00
		E	stimated Cost / Coût estimatif	\$711,000.00
Total I	Estimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applicable Taxes / Taxes applicables		\$92,430.00
	\$803,430.00			

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/o certify(ies) that the content of this TA is in accordance w		En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00 . When th including GST/HST) is in excess of this limit, the TA mus orwarded to the PWGSC Contracting Authority for auth	t be signed by the authorized client and	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT de l'autorité contractante de TPSGC pour autorisatio	it être signée par le client autorisé et transmise à			
Erin Lapensee	17-Jan-19					
Name of Authorized Client / Nom du client autorisé	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date			
Erin Lapensee		Villeneuve, Julie	Digitally signed by Villeneuve, Juli 3			
Signature		Signature	Date: 2019.01.18 10:28:07 -05'00'			

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mair Sundandard Decart Carectain

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Signature for / Mauric Coldham

Date | Dat

Traveux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

FARI I (completed by the Technical/Project A	uthority) / FAR II	C (complété par	le Responsable technique / Chargé	du projet)		
A. General Information / Informations générales						
Contract Number / Numéro du contrat : 47060-152116/002/EL						
Contractor Name / Nom du Contrac	teur : Donna Cor	nna Inc.				
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No l'engagement :		nancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response requir Réponse requise	• •
2018000634	1000337353	19	92040060/2001/16100	Feb 11, 2019	Feb 15, 2019	
B. For Amendments Only / Aux	cfins de modific	cation seule:	<u>ment</u>			
Amendment No. / Nº de la modificat	tion : 3					
Reason for the Amendment / Raison	n pour la modifica	ation :				
Amendment #3 is raised for the foll 1) Extend end date from February 2 2) Add 3)Increase total cost from \$711,000	3, 2019 to Februa days total esti	mated level of				
C. TA Requirements / Exigence	s relatives à l'A	I				
Required Resource(s) / Ressource(s)	requise(s)					
Category / Catégorie Level / Niveau d'effort estimatif (jours) Estimated Level of Effort (days) / Niveau d'effort estimatif (jours) Estimated Level of Effort (days) / Niveau Linguistic Profile Required Level(s) of Security Niveau(x) de sécurité requis						
Programmer/Software Developer - : Master Data Management (MDM) - Java	•	3		English / Anglais	Secret	
Statement of Work (tasks, deliverable	les, reports, etc.) ,	/ Énoncé des tra	avaux (tâches, livrables,	. rapports, etc.)		***************************************
See Attached Annex A - Statement of	of Work					
Period of Services / Période de ser	vice:					
Initial Start Date / Date de début initi	iale: Aug	gust 16, 2017	Initial End Dat	te / Date de fin initiale :	February 23, 20	018
Extented End Date (See Reason for t	he Amendment) /	Date de fin pr	olongée (voir Raison po	our la modification) :	February 23, 20	J20
Option To Extend Initial End Date	e / Option pour p	rolonger la dat	e de fin initiale			
Travel Requirement(s) / Exigence(s)	de voyage :	N/A				
Work Location(s) / Lieu(x) de travail :		355 North F	River Road, Ottawa, Ont	tario K1A OL8		
PART 2 (completed by the Contractor and/or t	the Technical/Project Auth	ority) / PART	IE 2 (complété par le Contracti	eur et/ou le Responsable technique / Cha	argé du projet)	
A. Contractor Resource(s) / Ressource(s) du Contracteur Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approvée, seules les ressources sulvantes peuvent fournir des services sous la présente AT.						

Name / Nom	Category / Catégorie		Linguistic Profile / Profile linguistique	1	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95866506	-

B. Estimated Cost/Coûtestimatif					
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
+ grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00	
AMENDMENT 001 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$418,700.00	
AMENDMENT 002 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	## ## ## ## ## ## ## ## ## ## ## ## ##		\$39,500.00	
AMENDMENT 003 - Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$446,350.00	
	\$1,157,350.00				
Total	\$0.00				
Taxe % applied / % de taxes appliquées	13.000 Applicable Taxes / Taxes applicables		\$150,455.50		
•	\$1,307,805.50				

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.			En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
(including GST/HST) is i	on limit is \$300,000.00 . When th n excess of this limit, the TA mus SC Contracting Authority for auth	it be signed	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT d l'autorité contractante de TPSGC pour autorisati	oit être signée par le client autorisé et transmise à			
Name of Authorized	Client / Nom du client autorisé Bignally signed by PERWARDER ACHERT BR CHALLEMON, INSPERSONNEL.	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date			
ROBERT	CAMPENDARON REBERT, CAMPENDARON REPORT, CAMPENDARON REBERT, CAMPENDARON REBERT, CAMPENDARON REBERT, CAMPENDARON REPORT, CAMPEN		Villeneuve, Julie 3	Digitally signed by Villeneuve,			
Signature			Signature Signature	Date: 2019.02.13 15:59:43 -05'00'			



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLDHAM	M. Coll	fèb12,2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

STATEMENT OF WORK ANNEX A

Title

Canada Border Services Agency requires one (1) Programmer/Software Developer – Level 3- Specialty in IBM Master Data Management (MDM) - Java development.

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, CAED, eManifest stabilization, CARM and GPF projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
 - MDM initial load for Dynamic Risking;
 - MDM development tasks for CERS;
 - MDM development tasks for CARM;
- Implement and support MDM maintenance batch processes:
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Develop code based upon design and requirements documents for the Identity Management team:
 - for MDM maintenance batch scripts;
 - for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
 - 1. Fixing functional defects;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection:
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes for any new initiative;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team.

Deliverables

The Contractor shall deliver the following:

- Critical Design Review (CDR) documentation including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template, by September 30, 2019;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema, by November 30, 2019;
- Documented Industry best practices and guidance, ongoing until the end of the contract;
- Develop and support MDM maintenance batch scripts for CAED release 898 (December 2019);
- Bi-Weekly Status Report outlining the Identification of any issues or concerns, ongoing until the end of the contract;

 Perform scheduled knowledge transfer sessions to CBSA application support team to enable and enhance support of MDM, ongoing until the end of the contract;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or link (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



PART I personal was inconsisting in those / PARTIE I complete out a superiode increase / Complete output						
A. General Information / Infor	mations généra	ıles				
Contract Number / Numéro du cont	trat : 47060-152	116/002/EL				
Contractor Name / Nom du Contrac	teur : Donna Con	nna Inc.				
Task Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No l'engagement :		inancial Coding / Code inancier:	Date of Issuance / Date of Issua	ate Response required Réponse requise pa	
2018000634	1000337353		92040060/2001/16100	August 16, 2017	August 17, 2017	
B. For Amendments Only / Au	x fins de modifi	cation seule	ement			
Amendment No. / № de la modifica	ition :					
Reason for the Amendment / Raiso	n pour la modifica	ation :				
C. TA Requirements / Exigence Required Resource(s) / Ressource(s)						
Required Resource(s) / Ressource(s)) requise(s)	I	T =		1	
Category / Catégori	Category / Catégorie Level / Niveau d'effort estimatif (Jours) Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours) Linguistique Required Level(s) of Security / Niveau(x) de sécurité requis					
Programmer/Software Developer - Master Data Management (MDM) - Java		3		English / Anglais	Secret	<u>+</u>
Statement of Work (tasks, deliveral	bles, reports, etc.)	/ Énoncé des	travaux (tâches, livrable:	s, rapports, etc.)		
Title						
Programmer / Software Developer	- Level 3 - MDM-	- Java develop	oment (BPM / Data Stew	ardship)		
Background						
The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.						
To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.						
in support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.						
Objective						
To acquire professional services fo	r one Application	/Software Dev	veloper Level 3 to perfor	m the tasks and deliverable	es below.	
Tasks and Deliverables						

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Provide guidance to configure BPM/Data Stewardship for a development workstation environment;
- · Provide guidelines, standards and best practices for the install, configuration and testing of Data Stewardship in all CBSA environments;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM infoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

Deliverables

The Contractor shall deliver the following:

- Review and update MDM and BPM/Data Stewardship high level design and detail design documents within 2 weeks from start date of TA;
- Design system components within 3 weeks from start date of TA;
- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse process, Split process, Master record maintain process, and Data validation process by Sept. 29, 2017;
- Create MDM processes including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by Sept. 29, 2017;
- Create tasks for Data Steward to maintain master record and Update/Refresh reference data by Sept. 29, 2017;
- Develop, integrate and test MDM components working with an approved interchange data format. February 23, 2018;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to eManifest YT environment by Sept. 29, 2017;
- Provide guidelines, standards and best practices for the deployment of Data Stewardship Business Process Manager (BPM) to project's development (YT) environments by Sept. 29, 2017;
- Design and Implement data cleansing for Data Stewardship by October 31, 2017;
- Create MDM mapping transformation rules by October 31, 2017;
- Create MDM business issues escalation rules by October 31, 2017;
- Review and update MDM data mapping and MDM business functional requirement by October 31, 2017;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by October 31, 2017;
- Review and comment on CBSA non-functional requirements by October 31, 2017;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments February 23, 2018:
- Document MDM Stewardship Operational Manual; and
- Resolve assigned defects within the user acceptance testing phase from February 1 to February 23, 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

being presented, the Project Authority will notify the resideliverable.	ource of the items that must be modified within five (5)	business days of receipt of the			
Technical Environment					
As defined in Section 12 of the contract number 47060-	52116/002/EL.				
Constraints					
At no time and in no way is CBSA data to be removed from the contractor must contractor must contractor.	m CBSA sites, nor will access to or from the Contractor's ply with CBSA internal security policies, directives, stan	s IT systems through the use of a session dards, and guldelines at all times during			
The CBSA's working hours are between 07:00 to 18:00 M These are core hours and are not representative of the d		ere Government Offices are closed.			
Language					
The proposed Resource will be required to perform the proposed must be able to communicate orally and in w	vork in English. Every individual proposed in its bid will iting in English without any assistance and with minima	be fluent in English. The individual Il errors.			
Reporting Requirements					
If a TA has been authorized, the resource must provide a was undertaken during the reporting period, what work attention of the Project Authority. The status reports mutemplate.	is still outstanding, and any issues or concerns that the	resource wants to identify to the			
Location of Work					
The work is expected to be performed on CBSA premise the National Capital Region. There is no travel requirem		OL8 or an alternative CBSA location in			
Client Support The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.					
Period of Services / Période de service:		1 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×			
Initial Start Date / Date de début initiale : Date d	TA Award Initial End Date / Date de fin initial	e : February 23, 2018			
Extented End Date (See Reason for the Amendment) / D	ate de fin prolongée (voir Raison pour la modification) :				
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale					
Travel Requirement(s) / Exigence(s) de voyage :	N/A				
Work Location(s) / Lieu(x) de travail :	Work Location(s) / Lieu(x) de travail : 355 North River Road, Ottawa, Ontario K1A 0L8				
PART 2 Completely the Consent asset its Tochard Property district	//PARTIEZ (Gradus DA) Construente University (197)	guaj Charga da promot			
A. Contractor Resource(s) / Ressource(s) du Contracteur					

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources sulvantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorle	Level / Niveau	•	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	95866506	

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00
×	34.1.1.11			
			Estimated Cost / Coût estimati	\$252,800.00
Total I	Estimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Appli	\$32,864.00	
		Total Estim	ated Cost / Coût total estimati	\$285,664.00

PART 3 - TA APPROVAL BY CANADA / PARTIE'S : APPRICEATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.

The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

Name of Authorized Client / Nom du client autorisé

August 16, 2017

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.

Name of Contracting Authority / Nom de l'autorité contractante

Date

Signature

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE OU CONTRACTEUR

MARK COLDHAM

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Signature

08/16/2017 Date Travnux publics of Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PART	TE 1 (complete	oarlis Responsable technique / Charg	ể đủ projet)			
A. General Information / Informations génér	rales	•		The state of the s	Activities and activities activities and activities activities and activities activities activities and activities activit	
Contract Number / Numéro du contrat : 47060-15	2116/002/EL					
Contractor Name / Nom du Contracteur : Donna Co	nna Inc.					
Task Authorization (TA) No. / N° Commitment N de l'autorisation de tâches (AT) : l'engagement :	o. / N° de Financial Coding / Code financier :		Date of Issuance / D d'émission ;		Response required by / Réponse requise par :	
2018000635 1000337354		192040060/2001/16100				
B. For Amendments Only / Aux fins de modi	ication seu	lement	The state of the s			
Amendment No. / № de la modification ;				* .		
Reason for the Amendment / Raison pour la modific	ation:					
The MDM project delivery timelines have changed a be done until all contentment is delivered.	and new requ	rements have been pres	ented which requires addit	ional MDM developme	nt work to	
C. TA Requirements / Exigences relatives à l' Required Resource(s) / Ressource(s) requise(s)	AI				rate to the state of the deposition of the security of the sec	
Category / Catégorie	Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)	Linguistic Profile / Profile linguistique	Required Level(s) of So Niveau(x) de sécurité o		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3		English / Anglals	Secret		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	***************************************	English / Anglais	Secret		
Statement of Work (tasks, deliverables, reports, etc.)	/Énoncé des	travaux (tāches, livrables	, rapports, etc.)			
Programmer / Software Developer – Level 3 ~ MDM - Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Scier capital projects and the associated information tech drive business transformation efforts and alignment To advance the planning, development and implement management of its portfolio of systems, projects in support of the above, the Common Services Portfolioe an Enterprise Building Blocks that can be lever	taking an amince and Techinology solution of business sentation of the and services	oltlous agenda of change nology Branch (ISTB) supp ons. Traditional IT function olutions in portfolios for the Agency's transformation te (CSPD) has undertaker	port these efforts with over ons have been augmented Travelers, Commercial, Cor on agenda, ISTB is impleme on the Master Data Manager	sight and alignment of with program directora nmon and Corporate p enting an enterprise app ment Service (MDMS), t	f major ates that projects, proach to so put in	
of the Entry/Exit project is dependent on successful Objective To acquire professional services for one Application,	delivery of th	e foundational compone	nts found in MDMS.			
Tasks and Deliverables The Contractor must provide the professional servic			위에 어린 경기를 보는 이 어떻게 됐다.		Iraft format,	

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates),

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MOM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- · Perform defect analysis and create new requirements as regulred;
- Review, modify and update service or solution design, as necessary:
- · Provide guidelines, standards and best practices for the integration with IBM integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations,
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and Implement system Integration components to Integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).
 Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse
 process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- · Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, Integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification (ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018;
 and
- Resolve assigned defects within the user acceptance testing phase from June 1 to September 30, 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.
Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard

on CBSA premises located at 33 or travel requirement under this case ID, password, workst rice with a building access pass, etc. Date of TA Award. Option pour prolonger la date of the case of the	Task Auth	e-mail address and oth account when working tial End Date / Date de f	/ ner materials (supportin in CBSA premises.	
c travel requirement under this CBSA user ID, password, workst ree with a building access pass, e: Date of TA Award Option pour prolonger la date of	Task Auth	e-mail address and oth account when working tial End Date / Date de f	ner materials (supportin in CBSA premises. fin initiale :	ng documentation) as
e: Date of TA Award Detion pour prolonger la date of	network Ini	account when working	In CBSA premises.	
: Date of TA Award Option pour prolonger la date of				February 28, 2018
Option pour prolonger la date d				February 28, 2018
The state of the s	de fin initi	ale	Status / Statut	
e(s) de fin optionnelle(s)		***************************************	Status / Statut	
2018		⊚ ln ∈	effect / en vigueur	
voyage: N/A				
355 North Riv	er Road, C	Ottawa, Ontario K1A 0L8	3	
chnical/Project Authority) / PARTIE	2 (complete	par le Contracteur et/ou le Rospon	isable rechnique / Chargé du proje	v -
arce(s) du Contracteur vide services under this TA / Nota; une fois app	prouvée, seule	s les ressources sulvantes penyent	fount des services saus la présent	te AT.
Category / Catégorie			Level of Security / Nive de sécurité	PWGSC Security eau File No. / № du dossier de sécurité TPSGC
mmer/Software Developer - Specialty in IBM Master a Management (MDM) - Java development	3	English / Anglals	Secret	95866596
	royage: N/A 355 North Riv chnical/Project Authority) / PARTIE srce(s) du Contracteur ride services under this TA. / Nota : une fois ap Category / Catégorie mmer/Software Developer Specialty in IBM Master a Management (MDM) - Java	Annicat/Project Authority) / PARTIE 2 (complete Services) du Contracteur ride services under this TA. / Nota : une fois approuvée, seule Category / Catégorie Level / Niveau mmer/Software Developer - Specialty in IBM Master Management (MDM) - Java	As a specialty in IBM Master MA 355 North River Road, Ottawa, Ontario K1A OLE chnikal/Project Authority) / PARTIE 2 (completé par le Contracteur eu/ou le Responsive) sece(s) du Contracteur ride services under this TA / Nota : une fois approuvée, seules les ressources suivantes peuvent Level / Niveau Linguistic Profile / Profile linguistique mmer/Software Developer - Specialty in IBM Master Management (MDM) - Java 3 English / Anglals	As a services under this TA. / Nota : une fols approuvée, seules les ressources suivantes peuvent fonituls des services saus la présent l'été services under this TA. / Nota : une fols approuvée, seules les ressources suivantes peuvent fonituls des services saus la présent l'inquistic Profile / Niveau Profile linguistique de sécurité mmer/Software Developer - Specialty in IBM Master a Management (MDM) - Java 3 English / Anglals Secret

Category / Categorie	Level / Niveau	Per Diem Rate / Taux Journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
# prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	['] 3			\$252,800.00	COMMITTE OF THE PROPERTY OF TH
Programmer/Software Developer - Specialty In IBM Master Data Management (MDM) - Java development	3			\$339,700.00	
		Ę	stlmated Cost / Coût estlmati	f \$592,500.00	
Total	Estimated Trav	el and Living Cost / Cout tota	l estimatif de voyage et de vie	\$0.00	
Taxe % applied / % de taxes appliquées	13,000	Applic	able Taxes / Taxes applicable	\$77,025.00	
	etti aira maada kataa maa aa aa abba,	Total Estima	ted Cost / Coût total estimati	f \$669,525.00	

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifylies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé eVou l'autorité contractante de TPSGC atteste(nt) que je contenu de cette AT est conforme aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments fincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. Robert Power authorized Client / Nom du client authorisé Date Signature	La limite d'autorisation du client est \$300,000.00. Lorsque la valeur de l'AT et ses modifications (inclùant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation. OSEE BASTIEN
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR
MAKK COLDHAM ACCOUNT E Name and Title of individual authorized to sign on behalf of the Contractor / Nome et fitre de la personne autorisée à signer au nom de l'entrepreneur	XEC All Dec Jo, 2017 Signature Date

Travaux publics of Services gouvernomentate Canada

A. General Information / Infor	mations génér	ales		·*			
Contract Number / Numèro du con	trat : 47060-152	?116/002/EL					*********
Contractor Name / Nom du Contrac	cteur : Donna Co	nna Inc.			•••••••••••••••••••••••••••••••••••••••		*********
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment N l'engagement :		inancial Coding / Code nancier :	Date of Issuance / D d'émission :		ponse required by a	1
2018000635	1000337354	1	92040060/2001/16100	Jul 17, 2018	Jul	19, 2018	********
B. For Amendments Only / Au	v fine da modif	ication souls	mant				b-0000000
•		ication seuit			***************************************	•	*********
Amendment No. / № de la modifica	ition : 2		***************************************				
Reason for the Amendment / Raiso	n pour la modific	ation :					**********
Add an additional days							
C. TA Requirements / Exigence	es relatives à l'	AT.					
Required Resource(s) / Ressource(s)	requise(s)						
Category / Catégori	e	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	1 .	evel(s) of Security / e sécurité requis	
Programmer/Software Developer - Master Data Management (MDM) - Java		3		English / Anglais	Secret	•	
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	, rapports, etc.)			
Title	· · · · · · · · · · · · · · · · · · ·						
Programmer / Software Developer	- Level 3 - MDM -	- Java developi	ment				
Background The Canada Border Services Agency Border modernization efforts. The li capital projects and the associated drive business transformation effor	nformation, Scier information tech	ice and Techno nology solution	ology Branch (ISTB) supp ns. Traditional IT functio	port these efforts with over ons have been augmented	rsight and ali with progran	ignment of major in directorates that	
To advance the planning, developn the management of its portfolio of			Agency's transformatio	on agenda, ISTB is impleme	enting an ent	erprise approach to	Э
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other	initiatives including the	Entry/Exit (E/E), BioMetrics	ment Service and UPASS	(MDMS), to put in projects. The delive	ery
Objective To acquire professional services for Tasks and Deliverables The Contractor must provide the pr to be followed by a final product in	ofessional service	es to perform t	he following tasks and o	deliver the following projec		es, first in draft form	ıat
an area a construction on the first part of the construction of th			, ,	***			

Traverix publics et : Services godvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Tasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- · Review and comment on service or solution design based on IBM best practices.
- Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify implementation approach;
- Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as
 required;
- · Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Use industry standard guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL);
- Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server
 environment;
- · Provide guidance with the configuration of RDL for production sizing;
- · Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product.
 Deliverables

The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- ·eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- System requirements, System Use Cases due by Sept. 29, 2017;
- IBM MDM server solution components including web service customizations and user interface customizations using Java technologies due by Sept. 29, 2017;
- Updated Critical Design Review (CDR) documentation due by October 31, 2017;
- Comments on the MDM Server components hardware sizing due by October 31, 2017;
- Comments on MDM data mapping and MDM business functional requirement due by October 31, 2017;
- MDM server solution component packaging and promotion strategy document due by October 31, 2017;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by March 31, 2018; and
- Resolve assigned defects within the user acceptance testing phase from February 1 to March 31 2018.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.



Travaux publics of Sarvices governmentation Canada

Language							
The proposed Resource will be proposed must be able to com	,			* *		iglish. The individual	***************************************
Reporting Requirements							
If a TA has been authorized, th was undertaken during the rep attention of the Project Author template.	orting period, what v	vork is still outstand	ing, and a	iny issues or concerns	that the resource want	s to identify to the	G
Location of Work							
The work is expected to be per the National Capital Region. Th					irio, KTA 0L8 or an alter	native CBSA location in	
Client Support The contractor will be provided required. CBSA will provide each						g documentation) as	
Period of Services / Période d	le service:						
Initial Start Date / Date de débu	ut initiale :		Initia	al End Date / Date de f	in initiale :	Nov 1, 2018	
Extented End Date (See Reason	for the Amendment)	/ Date de fin prolon	gée (voir	Raison pour la modific	:ation) :		
Option To Extend Initial End	d Date / Option pour p	orolonger la date de	fin initial	e			
Travel Requirement(s) / Exigent	ce(s) de voyage :	No travel requir	ements				
Work Location(s) / Lieu(x) de tra	ıvail :	355 North River	Road, Oti	tawa, Ontario K1A 0L8	3		
PART 2 (completed by the Contractor a	ind/or the Technical/Project Auti	hority) / PARTIE 2	(complété p	r le Contracteur at/ou le Respon	iable technique / Chargé du projet		
A. Contractor Resource(s)	/ Ressource(s) du C	ontracteur this IA, / Nota ; une fois appro	uvėe seules f	es ressources suivantes beoxeut	fournit des services sous la présent	e Alt.	
Name / Nom	Category / I	Catégorie	Level / Niveau		Level of Security / Nive de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Softv Specialty in I Data Managemer Develor	IBM Master nt (MDM) - Java	3	English / Anglais	Secret		+]
B. Estimated Cost / Coût es	timatif		***************************************				

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$252,800.00	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$339,700.00	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$98,750.00 🗸	
		E	Estimated Cost / Coût estimatif	\$691,250.00	1
Total	Estimated Trav	vel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00	
Taxe % applied / % de taxes appliquées	13.000	Applic	cable Taxes / Taxes applicables	\$89,862.50	
		Total Estima	ated Cost / Coût total estimatil	\$781,112.50	

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this FA. the authorized client authority and/or the PWGSC Contracting Authority certifylies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'A.F. le client au atteste(nt) que le contenu de cette AT est co	utorise et/ou l'autorité contractante de TPSGC. Informe aux conditions du contrat.
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/IIST) is in excess of this limit, the TA must be signed by the authorized client and fopyarded to the PWGSC Contracting Authority for authorization,		0.00 . Lorsque la valeur de l'AT et ses modifications AT doit être signée par le client autorisé et transmise à Isation,
Cein Lapensée JUL 19 2018	Mansour, Silvana	Digitally signed by Mansour, Silvana Date: 2018.08.22 08:45:10 - 04'00'
Name of Earthorized Client Norm du chent autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature	Signature	=

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK CONDAMM	ACCOUNT EXECUTUE	nall	07/26/2018
Name and Title of individual authorized to de la personne autorisée à signer au nom	sign on behalf of the Contractor / Nom et titre de l'entrepreneur	Signature	Date



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informat	ions génér	<u>ales</u>						
Contract Number / Numéro du contrat :	47060-152	116/002/EL						
Contractor Name / Nom du Contracteur	: Donna Co	nna Inc.						
	mmitment No		inancial Coding / Code inancier:		Date of Issuance / D d'émission :		Response required by Réponse requise par :	
2018000635	00337354		92040060/2001/16100		Oct 29, 2018		Nov 1, 2018	
B. For Amendments Only / Aux fin	s de modifi	cationseule	ement	•••••••••				
Amendment No. / Nº de la modification								
Reason for the Amendment / Raison po	ur la modific	ation :						
To extend the end date from November	1, 2018 to F	ebruary 23, 20	19 and update the SOW	•				
C. TA Requirements / Exigences re	latives à l'	\T						
		<u> </u>						
Required Resource(s) / Ressource(s) requ	use(s)							
Category / Catégorie		Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Lingu	uistic Profile / Profile linguistique	1	d Level(s) of Security / x) de sécurité requis	·
Programmer/Software Developer - Spec Master Data Management (MDM) - Java Dev		3			English / Anglais	Secret		
Statement of Work (tasks, deliverables,	reports, etc.)	/ Énoncé des t	ravaux (tâches, livrables	, rappo	orts, etc.)	-		
Title								
Programmer / Software Developer – Lev	vel 3 - MDM -	– Java develop	ment					
Background The Canada Border Services Agency (CB Border modernization efforts. The Infor capital projects and the associated info drive business transformation efforts ar	mation, Scier rmation tech	nce and Techno nology solutio	ology Branch (ISTB) supp ns. Traditional IT functio	port th	ese efforts with over ve been augmented v	rsight and with prop	d alignment of major gram directorates that	ř
To advance the planning, development the management of its portfolio of systematics.			· Agency's transformatio	on agei	nda, ISTB is impleme	nting an	enterprise approach t	0.
In support of the above, the Common Seplace an Enterprise Building Blocks that of the Entry/Exit project is dependent of	can be levera	aged by other i	nitiatives including the f	Entry/I	Exit (E/E), BioMetrics			
Objective To acquire professional services for one Tasks and Deliverables	#1 # 17 12 11 11 11 E.							
The Contractor must provide the profes to be followed by a final product incorp						t delivera	ables, first in draft forr	nat

Travaux publics et Services gouvernementaux Ganada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Tasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- Review and comment on service or solution design based on IBM best practices.
- Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify implementation approach;
- Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as
 required;
- · Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Use industry standard guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments:
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources;
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL);
- Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server environment;
- Provide guidance with the configuration of RDL for production sizing;
- Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product. Deliverables

The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- Updated Critical Design Review (CDR) documentation with all the changes due by February 23, 2019;
- Comments on the MDM collapse results December 31, 2018;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by February 23, 2019; and
- Resolve assigned defects within the user acceptance testing phase from February 23, 2019.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.



Public Works and Government Services Services gouvernementaux Canada

Reporting Requirements							
If a TA has been authorized, the was undertaken during the report attention of the Project Authoritemplate.	orting period, what work	s still outstandi	ng, and an	y issues or concerns t	hat the resource wants to	identify to the	rd
Location of Work							
The work is expected to be perf the National Capital Region. The					rio, K1A OL8 or an alterna	tive CBSA location ir	1
Client Support The contractor will be provided required. CBSA will provide eac	l with a CBSA user ID, pass h resource with a building	sword, workstat g access pass, n	tion and e- etwork ac	mail address and othe count when working in	er materials (supporting d n CBSA premises.	ocumentation) as	
Period of Services / Période de	e service:						
Initial Start Date / Date de débu	t initiale : And	16, 201	7 Initia	l End Date / Date de fi	n initiale :	ov 1, 2018	
Extented End Date (See Reason	for the Amendment) / Da	te de fin prolon	gée (voir F	Raison pour la modifica	ation): Fe	bruary 23, 2019	
Option To Extend Initial End	Date / Option pour prolo	nger la date de	fin initiale				
Travel Requirement(s) / Exigenc	e(s) de voyage :	No travel requir	rements				
Work Location(s) / Lieu(x) de tra	vail :	355 North River	Road, Ott	awa, Ontario K1A 0L8			
PART 2 (completed by the Contractor a A. Contractor Resource(s) /			2 (complété pa	er le Contracteur et/ou le Respon	sable technique / Chargé du projet)		***************************************
Note: once approved, only the following resource			ouvée, seules le	s ressources suivantes peuvent fo	ournir des services sous la présente Al		
Name / Nom	Category / Cate	égorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Nivea de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Specialty in IBM Data Management (N Developme	Master ИDM) - Java	3	English / Anglais	Secret	95866596	
B. EstimatedCost/Coûtes	timatif						

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$252,800.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$339,700.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$98,750.00
		·	Estimated Cost / Coût estimatif	\$691,250.00
Total	Estimated Trave	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$89,862.50
		Total Estima	ated Cost / Coût total estimatif	\$781,112.50

ncluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and (incluant	e d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications t la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise é contractante de TPSGC pour autorisation.
Mitthew Voods Oct 29, 2019	
	f Contracting Authority / Nom de Date é contractante
Signature Signature	Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2018.10.30 09:07:25 -04'00'

Mark Coldham	Account Executive	Marlefall	10/29/2018
Name and Title of individual aut de la personne autorisée à signe	horized to sign on behalf of the Contractor / Nom et titre r au nom de l'entrepreneur	Signature	Date

/ DADTIE 4

PAKI 1 (completed by the Technical/Project A	uthority] / PAK II	C (complété pa	r le Responsable technique / Chargé	du projet)		
A. General Information / Infor	mations généra	ales				
Contract Number / Numéro du contr	rat : 47060-152	116/002/EL				
Contractor Name / Nom du Contrac	teur : Donna Cor	nna Inc.				
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No l'engagement :	•	inancial Coding / Code inancier :	Date of Issuance / D d'émission :	ate Response require Réponse requise p	
2018000635	1000337354	1	92040060/2001/16100	Feb 11, 2019	Feb 15, 2019	
B. For Amendments Only / Aux	fins de modific	cation seule	ment			
Amendment No. / № de la modificat	tion: 4					
Reason for the Amendment / Raison	n pour la modifica	ation				
Amendment #4 is raised for the foll 1) Extend end date from February 2 2) Add 3)Increase total cost from \$691,250.	3, 2019 to Februa days total esti	mated level of	•			
C. TA Requirements / Exigence	s relatives à l'A	I		**************************************		
Required Resource(s) / Ressource(s)	requise(s)					
Category / Catégorie	2	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile/Profile linguistique	Required Level(s) of Secu Niveau(x) de sécurité req	
Programmer/Software Developer - : Master Data Management (MDM) - Java		3		English / Anglais	Secret	+
Statement of Work (tasks, deliverable	les, reports, etc.),	/ Énoncé des ti	ravaux (tâches, livrables,	, rapports, etc.)		
See Attached Annex A - Statement of	of Work					
Period of Services / Période de ser	vice:					
Initial Start Date / Date de début initi	iale :		Initial End Da	te / Date de fin initiale :	Nov 1, 2018	
Extented End Date (See Reason for t	he Amendment) ,	/ Date de fin p	rolongée (voir Raison po	our la modification) :	Feb 23, 2020	
Option To Extend Initial End Dat	e / Option pour p	rolonger la da	te de fin initiale			
Travel Requirement(s) / Exigence(s)	de voyage 🖫	No travel r	equirements			
Work Location(s) / Lieu(x) de travail :		355 North	River Road, Ottawa, On	tario K1A OL8		
PART 2 (completed by the Contractor and/or t	the Technical/Project Auth	ority) / PAR1	71E 2 (complété par le Contract	eur et/ou le Responsable technique / Chi	argé du projet)	
A. Contractor Resource(s) / Res			ils approuvée, seules les ressources	sulvantes peuvent fournir des services so	ous la présente AT	



Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	***************************************
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3	English / Anglais	Secret	95866596	+

B. Estimated Cost/Coûtestimatif					
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif	
+ grammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$1,137,600.00	
				X.	
		E	stimated Cost / Coût estimatif	\$1,137,600.00	
Total	Estimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00	
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$147,888.00	
		Total Estima	ted Cost / Coût total estimatif	\$1,285,488.00	

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/o		En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC		
certify(les) that the content of this TA is in accordance v	vith the conditions of the Contract.	atteste(nt) que le contenu de cette AT est confo	rme aux conditions du contrat.	
The client's authorization limit is \$300,000.00 . When the (including GST/HST) is in excess of this limit, the TA must forwarded to the PWGSC Contracting Authority for auth	it be signed by the authorized client and	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT de l'autorité contractante de TPSGC pour autorisation	oit être signée par le client autorisé et transmise à	
Name of Authorized Client / Nom du client autorisé PENWARDEN Okstatio segre de presentation ACQUEST Oktober, orașe, causteca adar, qua PERSCHNEL,	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date	
ROBERT con-PENNABOR 4008RT. serialburdhow-201909231118149 bate: 201912114 14.39(25-80500) Signature		Villeneuve, Julie	3 Digitally signed by Villeneuve, Julie 3 Date: 2019.02.13 16:16:14 -05'00'	
Jigiiacui C		2		

PART 4-CONTRACTOR SIGNATURE / PARTIE 4-SIGNATURE DU CONTRACTEUR



Traveux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur

Signature

2 4 12

Page 3 of 3

REQ#:1000337354-2018000635

STATEMENT OF WORK ANNEX A

Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – Specialty in IBM Master Data Management (MDM) - Java development

Background

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), Dynamic Risking, CAED, eManifest stabilization, CARM and GPF projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

Objective

To acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- MDM initial load for Dynamic Risking;
- MDM development tasks for CERS;
- MDM development tasks for CARM;
- Implement and support MDM maintenance batch processes;
- Follow the CBSA project development life cycle with the Identity Management team in engineering
 a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Develop code based upon design and requirements documents for the Identity Management team;
- for MDM maintenance batch scripts;
- for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
 - 1. Fixing functional defects;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes for any new initiative;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team.

Deliverables

The Contractor shall deliver the following:

- Critical Design Review (CDR) documentation including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template, by September 30, 2019;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema, by November 30, 2019;
- Documented Industry best practices and guidance, ongoing until the end of the contract;
- Develop and support MDM maintenance batch scripts for CAED release 898 (December 2019);
- Bi-Weekly Status Report outlining the Identification of any issues or concerns, ongoing until the end of the contract;
- Perform scheduled knowledge transfer sessions to CBSA application support team to enable and enhance support of MDM, ongoing until the end of the contract;

REQ#:1000337354-2018000635

- DSC Split services development, Sept 30, 2019;
- ICES Integration model changes, Nov 30, 2019;
- ICES integration services development, Jan 31, 2020.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or link (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

REQ#:1000337354-2018000635

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A OL8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completely the Testingstrapes Autom) / PARTIE 1 (completely a Resonable testings) (transplational) A. General Information / Informations générales Contract Number / Numéro du contrat; 47060-152116/002/EL Contractor Name / Nom du Contracteur : DONNA CONA INC. Response required Task Authorization (TA) No. Commilment No. Financial Coding Date of Issuance Nº de l'autorisation de tâches (AT) : Nº de l'engagément : Code financier : Date d'émission : Réponse requise d'ici le : 2018000635 11000337354 1920400060/6001/10400 Jan 18, 2020 29-Jan-2020 B. For Amendments Only / Aux fins do modification seulement Amendmest No. / Nº de la modification : Reason for the Amendment / Raison pour la modification > Amendment #5 is raised for the following: 1) Extend end date from February 23, 2020 to February 23, 2021; 2) Add days total estimated level of effort; 3)Increase total cost from \$1,728,125,00 to \$1,611,600,00 (All applicable taxes extra). C. TA Requirements / Exigences relatives à l'AT Required Resource(s) / Ressource(s) requise(s) Estimated Level of Required Level(s) of Effort (days) / Catedory and Level Linguistic Profile / Profile Security 7 Niveau Catégoria et Niveau linguistique Niveau(x) de d'effort estimatif sécurité requis (lours) Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development English / Anglais Level 3 Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des traveux (taches, livrables, rapports, etc.) See attached / Voir pièce jointe Period of Services / Période de service: Initial Start Date / Date de début initiale ; Nov 1,2018 Initial End Date / Date de fin initiale : 23-Feb-2021 Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): Option To Extend Initial End Date / Option pour prolonger la date de fin initiale Optional End Date(s) / Date(s) de fin optionnelle(s) Status / Status X O In Effect / en vigueur Travel Requirement(s) / Exigence(s) de voyag (n/a

1 of 2

Nork Location(s) / Lieu(x) de travail :	333 North Rive		ario, K1A OL: tonal Capital) or an alternative CB Region	SA location
PART 2 (secretaried by the Controller and/or the Technical Projec	1 Activity / PARTIE 2 s	orçidis per la Cortradese Alice	le Pergrande etc	igua í Charga de projetj	
Contractor Resource(s) and Estimated	Cost / Ressource(s)	du Contracteur e	t Coût tota	l estimatif	
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Olem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software Developer - Specialty in IBM - Master Data Management MDM) - Java development		English/Anglais			\$1,611,600.00
		<u> </u>	Estimated	Cost / Coût estimatif	\$1,611,600.00
	Total Estimated Travel at	d Living Cost / Coût	total estimati	f de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes / 1	Гахеs applica	bles	\$209,508.00
		Total Esti:	mated Cost /	Coût total estimatif	\$1,821,108.00
	and the second of the second o			Firm Price /	
Check applicable Basis of Pa Cocher Ia Base de Palement a PART 3 - TA APPROVAL BY CANA By signing this TA, the authoritzed client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract. The client's authorization limit is \$150,000. When the	pplicable : DA / PARTIE 3 ~ AF for the PWGSC Contracting coordance with the value of a TA and its	En apposant sa signat TPSGC atteste(nt) que La limite d'autorisation modifications	ure sur?AT, le r s le contenu de du client est 15	Prix Ferme : R LE CANADA Sient autorisé el/ou l'auto cette AT est conforme au i0,000 \$. Lorsque la vale	ux conditions du comiret. ur de l'AT et ses
Cocher la Base de Palement as PART 3 - TA APPROVAL BY CANA By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract. The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in exce- be signed by the authorized client and forwarded to the	opticable : DA / PARTIE 3 - AF for the PWSSC Contracting coordance with the value of a TA and its as of this limit, the TA must	Prix Maximum : PROBATION Di En apposant se signer TPSGC atteste(nt) que La limite d'autorisation modifications (excluent les texes app	ure sur (AT, le r s le contenu de du client est 15 Nicebles) dépas	Prix Ferme : R LE CANADA client sutorisé et/ou l'autro cette AY est conforme a	ux conditions du confrat. ur de FAT et ses être signée par le client
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Cocher la Base de Palement as PART 3 - TA APPROVAL BY CANA By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract.	policable : DA / PARTIE 3 - AF For the PWGSC Contracting coordance with the value of a TA and its as of this limit, the TA must be PWGSC Contracting	Prix Maximum : PROBATION DI En apposant sa signat TPSGC atteste(nt) que La limite d'autorisation modifications (excluent les texes app autorisé et transmise à	ure sur fAT, le / s le contenu de du client est 15 disables) dépas l'autorité contr	Prix Ferme : R LE CANADA dient autorisé et/ou l'auto cette AT est conforme au 60,000 \$. Lorsque la vale use cette limite, fAT doit actante de TPSGC pour de l'autorité contractante Distait, sonat le CASTE UN CHEU, Oleco serial Numerice auto Grécial Numerice Gréci	ux conditions du comirat. ur de l'All et ses être signée par le client eutorisation Date Dat



PARTY 1, amount of the contract of the PARTY	E Tananayan	Matematic activities a comp	de projety	1.00 miles (1.00 miles)	22.4
A. General Information / Informations génér	ales				
Contract Number / Numéro du contrat : 47060-152	116/002/EL				
Contractor Name / Nom du Contracteur : Donna Co	nna Inc.				
• •	in the second of				
2018000635 1000337354	19	2040060/2001/16100	August 16, 2017	August 17, 2017	
B. For Amendments Only / Aux fins de modif	ication seule:	ment			
Amendment No. / № de la modification :					
Reason for the Amendment / Raison pour la modific	ation :				
C. TA Requirements / Exigences relatives à l'	AI				
Required Resource(s) / Ressource(s) requise(s)	·				1
Category / Catégorie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Sec Niveau(x) de sécurité rea	
Programmer/Software Developer - Specialty in IBM Master	3		English / Anglais	Secret	一旦
Data Management (MDM) - Java development					
Statement of Work (tasks, deliverables, reports, etc.)			, rapports, etc.)	en e	
Programmer / Software Developer – Level 3 - MDM	– Java developi	nent (server expert)			
Background The Canada Border Services Agency (CBSA) is under Border modernization efforts. The Information, Scie capital projects and the associated information technique business transformation efforts and alignmen	nce and Techno	ology Branch (ISTB) sup ns. Traditional IT function	port these efforts with ove ons have been augmented	ersight and alignment of r Is with program directorate	major es that
To advance the planning, development and implen the management of its portfolio of systems, project	nentation of the s and services.	Agency's transformation	on agenda, ISTB is implem	nenting an enterprise appr	roach to
In support of the above, the Common Services Port place an Enterprise Bullding Blocks that can be leve of the Entry/Exit project is dependent on successful	raged by other	initiatives including the	e Entry/Exit (E/E), BioMetri	ement Service (MDMS), to cs and UPASS projects. Th	put in e delivery
Objective					
Acquire professional services for one Application/S	oftware Develop	per Level 3 to perform t	he tasks and deliverables	below.	
Tasks and Deliverables					
The Contractor must provide the professional servi	ces to perform t	he following tasks and	deliver the following proj	ect deliverables, first in dr	aft format,

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

Tasks

To provide to CBSA, ongoing until the end of the TA, technical expertise and guidance on the following topics:

- Participate in Joint Applications Discussion sessions;
- Review and comment on service or solution design based on IBM best practices.
- Review and comment on MDM high level design (including ADS documents) based on IBM best practices.
- Develop System requirements, System Use Cases based on industry standard practices.
- Use industry standard guidelines, and best practices to develop MDM detail design documentation in order to confirm or identify Implementation
 approach;
- Review and comment on CBSA non-functional requirements
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Use industry standard best practices for solution implementation, integration, and operation in production;
- Perform defect analysis based on business requirements for each project and create new programming logic to satisfy business requirement as required:
- · Use industry standard guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Use industry standard guidelines, standards and best practices for the integration IBM InfoSphere Information Server (IIS) QualityStage and DataStage;
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Use industry standard guidelines, standards and best practices for the install, configuration and testing of IBM MDM products to all CBSA environments;
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
 party reference data sources;
- Use industry standard guidelines, standards and best practices for the deployment of MDM on new high end infrastructure Research and Development Lab(RDL);
- · Use industry standard guidelines, standards and best practices for the deployment of Application code, including customizations;
- Develop, integrate and test MDM components working with an approved interchange data format;
- Use industry standard guidelines, standards and best practices for the performance tuning, load balancing and optimization strategies for MDM Server environment;
- Provide guidance with the configuration of RDL for production sizing;
- · Provide guidance with the MDM security frameworks and integration with CBSA security policy and identity stores; and
- Provide guidance to the project manager with regards to work effort estimations for development and customization of IBM MDM COTS product.

Deliverables

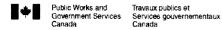
The Contractor shall deliver the following:

- Comments on service or solution design due within 2 weeks of start date of TA;
- Comments on MDM high level design and detail design due within 2 weeks of start date of TA;
- · eManifest MDM database migration strategy due within 2 weeks of start date of TA;
- · Comments on CBSA non-functional requirements due within 2 weeks of start date of TA;
- System requirements, System Use Cases due by Sept. 29, 2017;
- IBM MDM server solution components including web service customizations and user interface customizations using Java technologies due by Sept. 29, 2017:
- Updated Critical Design Review (CDR) documentation due by October 31, 2017;
- · Comments on the MDM Server components hardware sizing due by October 31, 2017;
- · Comments on MDM data mapping and MDM business functional requirement due by October 31, 2017;
- MDM server solution component packaging and promotion strategy document due by October 31, 2017;
- Document detailing processes and steps needed to build, administer and support all tests, in development and production environments due by February 23, 2018; and
- Resolve assigned defects within the user acceptance testing phase from February 1 to February 23, 2018.
- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the c	ontract number 4	/060-152116/002/EL.					11
As defined in Section 12 of the C	.ontract name i	7000 102110,002,121					
Constraints At no time and in no way is CBS. or ling (e.g. VPN) be permitted. " the contract.	A data to be remo The contractor mu	ved from CBSA sites, no ist comply with CBSA in	r will acco ternal sec	ess to or from the Cont curity policies, directive	tractor's IT systems thro es, standards, and guide	ugh the use of a sess lines at all times duri	ion ing
The CBSA's working hours are b These are core hours and are no Language					days where Government	Offices are closed.	***************************************
The proposed Resource will be oproposed must be able to comm	required to perform nunicate orally and	m the work in English. E d in writing in English w	very indivithout ar	vidual proposed in its l by assistance and with	bid will be fluent in Engi minimal errors.	ish. The individual	
Reporting Requirements							
If a TA has been authorized, the was undertaken during the repo attention of the Project Authori template.	orting period, wha	t work is still outstandir	ng, and ar	ny issues or concerns t	hat the resource wants t	o identify to the	Ш
Location of Work							
The work is expected to be perf the National Capital Region. The	ormed on CBSA peere is no travel req	remises located at 333 full Juirement under this Ta	North Rive sk Author	er Road, Ottawa, Ontai ization.	rio, K1A OL8 or an altern	ative CBSA location i	'n
Client Support							
The contractor will be provided required. CBSA will provide eac	with a CBSA user h resource with a l	ID, password, workstati building access pass, ne	on and e- twork ac	mail address and othe count when working in	er materials (supporting n CBSA premises.	documentation) as	
Period of Services / Période de	e service:						
Initial Start Date / Date de débu	t initiale :	Date of TA Award	Initia	l End Date / Date de fi	n initiale :	ebruary 23, 2018	
Extented End Date (See Reason	for the Amendme	nt) / Date de fin prolon	gée (voir l	Raison pour la modific	ation):		
Option To Extend Initial End	Date / Option por	ur prolonger la date de	fin initiale				
Travel Requirement(s) / Exigenc	e(s) de voyage :	N/A					
Work Location(s) / Lieu(x) de tra	vail:	355 North River	Road, Ott	awa, Ontario K1A 0L8			
	ally ou feature special	(Logical A PARTIE 2	and a	ra i čanada v svoja Sadoni	ichi seçindiğili (Changi di) projeti		
A. Contractor Resource(s) / Note: once approved, only the following resour	Ressource(s) d	u Contracteur	uvée, seules la	es ressources suivantes peuvent f	ournir des services sous la présente	AT.	
Name / Nom		y / Catégorie	Level / Niveau	Linguistic Profile /	Level of Security / Nive de sécurité	PWGSC Security	
	Specialty Data Manage	ftware Developer - in IBM Master ment (MDM) - Java elopment	3	English / Anglais	Secret	95866596	-

B. Estimated Cost / Coût estimatif		-					
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif			
+ prammer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$252,800.00			
		4	Estimated Cost / Coût estimati	f \$252,800.00			
Total f	estimated Trav	el and Living Cost / Coût to	ital estimatif de voyage et de vie	\$0.00			
Taxe % applied / % de taxes appliquées	Taxe % applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicables						
		Total Estin	mated Cost / Coût total estimati	f \$285,664.00			
PARTS - TA APPROVAL BY CANA	DA/PAR	TE 3 - APPROBATIO	NORVATPANIECAN	VA			
by signing this TA, the authorized client authority and/or the certify(ies) that the content of this TA is in accordance with the client's authorization limit is \$300,000.00. When the value of this limit, the TA must be convarded to the PWGSC Contracting Authority for authoriz	he conditions of t lue of a TA and its signed by the aut	he Contract. atteste(nt) qu amendments La limite d'au horized client and (incluant la Tr	sa signature sur l'AT, le client autorisé et/ e le contenu de cette AT est conforme au torisation du client est \$300,000.00 . Lors PS/TVH) dépasse cette limite, l'AT doit êtr tractante de TPSGC pour autorisation.				
Robert Penulardes Name of Authorized Client / Nom du client autorise D. D. D. D. D. D. D. D. D. D	Aug 16, 2	Name of Contract of l'autorité con	tracting Authority / Nom de tractante	Date			
Signature Planstander.		Signature					
PARTA - CONTRACTOR SIGNATU	NE / PAR	je a-signatione d	U CONTRACTEUR				
MARK (OLD HAM ACTOURT ES Name and Title of individual authorized to sign on behalf de la personne autorisée à signer au nom de l'entreprene	of the Contractor		Pel	08/16/2017 Date			



PART Tylking and by the Schrikal/Project Authority /	PARTI	E 1 (complete par	fe Responsable technique / Charge	du projet		
A. General Information / Informations	génér	ales				
Contract Number / Numéro du contrat : 47	060-152	116/002/EL				
Contractor Name / Nom du Contracteur : Do	nna Cor	nna Inc.				
Task Authorization (TA) No. / N° Commit de l'autorisation de tâches (AT) : l'engage			inancial Coding / Code nancier :	Date of Issuance / Date of Issua	ate Response requi Réponse requis	,
2018001578 1000339			192040060-6001-34210 Feb 7, 2018		Feb 13, 2018	
B. For Amendments Only / Aux fins de	modif	ication seule	ement			
Amendment No. / Nº de la modification :						
Reason for the Amendment / Raison pour la	modific	ation :			garan an ann an	
C. TA Requirements / Exigences relative	<u>⁄es à l'/</u>	<u>AT</u>				
Required Resource(s) / Ressource(s) requise(s	;)	Τ.				
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Se Niveau(x) de sécurité re	
Programmer/Software Developer - Specialty Data Management (MDM) - Java Developi		3		English / Anglais	Secret	+
Statement of Work (tasks, deliverables, repo	rts, etc.)	/ Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)	***************************************	
Title						
Programmer / Software Developer – Level 3	- MDM -	- Java develop	ment			
Background The Canada Border Services Agency (CBSA) i Border modernization efforts. The Informati capital projects and the associated informat drive business transformation efforts and ali	on, Scier ion tech	nce and Techno nology solutio	ology Branch (ISTB) sup ns. Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment of with program directora	major Ites that
To advance the planning, development and the management of its portfolio of systems,			e Agency's transformati	on agenda, ISTB is impleme	enting an enterprise app	oroach to
In support of the above, the Common Service place an Enterprise Building Blocks that can of the Entry/Exit project is dependent on such	be lever	aged by other	initiatives including the	e Entry/Exit (E/E), BioMetric	ment Service (MDMS), to s and UPASS projects. Ti	o put in he delivery
Objective To acquire professional services for one App Tasks and Deliverables	lication	/Software Deve	eloper Level 3 to perfor	m the tasks and deliverable	es below.	
The Contractor must provide the profession to be followed by a final product incorporat					ct deliverables, first in d	raft format,

Page 1 of 4

Travaux publics et Services gouvernementaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide guidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required;
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third
 party reference data sources;
- · Provide guidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL).

Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse
 process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018; and
- Resolve assigned defects within the user acceptance testing phase on going until end of TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Travaux publics et Services gouvernementaux Canada

Note: once approved, only the following re		egory / Catégorie er/Software Developer -	Niveau	Profile linguistique	de sécurité	sécurité TPSGC
Note: once approved, only the following re			Level /	Linguistic Profile /	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de
A. Contractor Resource(:) / Ressource(sources may provide serv	s) du Contracteur ices under this TA. / Nota : une fois appro	ouvée, seules l	es ressources suivantes peuvent	fournir des services sous la présente A	i.
PART 2 concepted by the Connect	of and/of the Technical/P	roject Authority / PARTIE 2	(complété ja	r le Contracteur eVou le Respon	a ble technique / Charge du projet)	
Work Location(s) / Lieu(x) de	travail :	333 North River	Road, Ott	awa, Ontario K1A 0L8	or an alternative CBSA lo	cation in the NCR.
Travel Requirement(s) / Exige	nce(s) de voyage	No travel requir	ement un	der this Task Authoriz	ation.	
Option To Extend Initial E	nd Date / Option	pour prolonger la date de	fin initial			
Extented End Date (See Reas	on for the Ameno	lment) / Date de fin prolon	gée (voir	Raison pour la modific	ration):	
Initial Start Date / Date de dé	out initiale :	Feb 19, 2018	Initia	l End Date / Date de fi	n initiale : De	c 31, 2018
Period of Services / Période	de service:					
Client Support The contractor will be provide required. CBSA will provide 6	ed with a CBSA u ach resource wit	iser ID, password, workstat h a building access pass, no	ion and e	mail address and othe count when working i	er materials (supporting d n CBSA premises.	ocumentation) as
Location of Work The work is expected to be p the National Capital Region.	erformed on CBS There is no travel	A premises located at 333 requirement under this Ta	North Riv Isk Authol	er Road, Ottawa, Onta ization.	rio, K1A 0L8 or an alterna	ive CBSA location in
attention of the Project Auth template.	eporting period, ority. The status	what work is still outstandi	ng, and a	ny issues or concerns t	to the Project Authority o that the resource wants to e sheet mapped to delive	identify to the

Égorie Level / Per Diem Rate / Taux Niveau journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif					
veloper - Specialty nt (MDM) - Java 3 ent		\$197,500.00					
Estimated Cost / Coût estimatif							
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie							
e taxes appliquées 13.000 Appl	13.000 Applicable Taxes / Taxes applicables						
Total Estimated Cost / Coût total estimatif							

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract. atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat. La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à uncluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization. l'autorité contractante de TPSGC pour autorisation. Name of Contracting Authority / Nom de Date l'autorité contractante L. A. Landerson, D. C. Carrier, C. Carrier

Dev	COLDHOM	ACIOUNT	EVECTIVE	Mille	Feb6,2018
e and Title of in	ndividual authorized to sign	on behalf of the Contrac	tor / Nom et titre	Signature	Date



Travaux publics at Services gouvernementalix Canada

Contractor Name / Nom du Contracteur : Task Authorization (TA) No. / N° Comr de l'autorisation de tâches (AT) : l'enga	nitment No gement :	na lnc. . / Nº de F	_					***********		
Task Authorization (TA) No. / N° Comm de l'autorisation de táches (AT) : l'enga	nitment No gement :	./№de F	_							
de l'autorisation de tâches (AT) : l'enga	gement:		_		······································					
2018001578 10003	39847									
h	····	18001578 1000339847 19204006001-34210 Jul 17, 2018 Jul 19, 2018								
B. For Amendments Only / Aux fins o	le modific	cation seule	rment					***************************************		
Amendment No. / Nº de la modification :	I									
Reason for the Amendment / Raison pour	la modifica	tion :					•	0.000000000		
Adding days				***************************************				***************************************		

C. TA Requirements / Exigences rela	tives à l'A	T						2000000000		
Required Resource(s) / Ressource(s) requise	?(s)									
talennovitalennoe ilevelivoveaul i i i i i i i i i i i i i i i i i i i				ed Level(s) of Security / (x) de sécurité requis						
Programmer/Software Developer - Special Data Management (MDM) - Java Develo										
Statement of Work (tasks, deliverables, rep	orts, etc.) /	Énoncé des ti	avaux (tāches, livrables	, rapp	orts, etc.)		3			
Title										
Programmer / Software Developer – Level	3 - MDM	Java developi	ment							
Background The Canada Border Services Agency (CBSA Border modernization efforts. The Informa capital projects and the associated informa drive business transformation efforts and a	tion, Scienc	e and Techno ology solution	ology Branch (ISTB) supp ns. Traditional IT functio	port th	nese efforts with overs ve been augmented v	sight ar with pro	nd alignment of major ogram directorates that			
To advance the planning, development an the management of its portfolio of systems			Agency's transformation	on age	enda, ISTB is împlemei	nting ar	n enterprise approach i	0		
In support of the above, the Common Serv place an Enterprise Building Blocks that ca of the Entry/Exit project is dependent on s	n be leverag	ged by other i	initiatives including the	Entry	/Exit (E/E), BioMetrics	nent Se and UP	rvice (MDMS), to put in 'ASS projects. The deliv	егу		
Objective To acquire professional services for one Ap Tasks and Deliverables The Contractor must provide the professio to be followed by a final product incorpora	nal services	to perform ti	he following tasks and c	dellver	r the following project			nat		
Tasks										

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TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

- Participate in Joint Applications Discussion sessions;
- Provide quidelines, and best practices for the MDM detail design document in order to confirm or identify implementation approach;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- · Mentor CBSA staff on MDM and Data Stewardship deliverables to enable the CBSA to provide on-going support and maintenance
- Develop industry best practices for solution implementation, integration, and operation in production;
- Perform defect analysis and create new requirements as required:
- Review, modify and update service or solution design, as necessary;
- Provide guidelines, standards and best practices for the integration with IBM Integration Bus (IIB) Enterprise Service Bus (ESB);
- · Provide guidelines, standards and best practices for the deployment of Application code, including customizations.
- Provide guidance to package a fixed or enhanced solution for redeployment;
- Develop, integrate and test MDM components working with an approved interchange data format.
- · Provide guidance to the project manager for HR planning.
- Design and implement system integration components to integrate the IBM InfoSphere MDM server solution with CBSA business systems and third party reference data sources:
- Provide quidelines, standards and best practices for the deployment on new high end infrastructure Research and Development Lab(RDL), Deliverables

The Contractor shall deliver the following:

- Define and review System Use Cases (SUCs) including but not limited to: MDM mapping transformation rules, Search, Collapse process, Uncollapse process, Split process, Master record maintain process, and Data validation process by February 15, 2018;
- Create MDM processes and services including but not limited to: Search, Collapse, Uncollapse, Split, Maintain master record, Update, Data quality assessment, and Update reference data by May 31, 2018;
- Integrate the code bases for Commercial MDM and Traveller MDM by May 31, 2018
- Develop, integrate and test MDM components working with an approved interchange data format by March 31, 2018;
- · Review and update Critical Design Review (CDR) documentation including but not limited to: System requirements specifications, Architecture and design specification(ADS)-part 3, 4 and 5, ADS Annex A, System-Requirement Traceability Matrix, and Release notes by February 15, 2018;
- Review and comment on CBSA for MDM non-functional requirements by February 15, 2018;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments March 31, 2018;
- Resolve assigned defects within the user acceptance testing phase on going until end of TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day. Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors,

Reporting Requirements

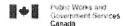
If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work



Travaux publics et Services gouvernomentaux Canada

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.											
Client Support The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required, CBSA will provide each resource with a building access pass, network account when working in CBSA premises.											
Period of Services / Période de service:											
nitial Start Date / Date de début initiale : Feb 19, 2018 Initial End Date / Date de fin initiale : Dec 31, 2018											
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :											:
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale											
Travel Requirement(s) / Exigenc	Travel Requirement(s) / Exigence(s) de voyage: No travel requirement under this TA										
Work Location(s) / Lieu(x) de tra	avail ;	[33	3 North River	Road, Ot	tawa, C)n	t. KIA OL8 or	an alternative (BSA locati	on in the NCR	
PART 2 (completed by the Contractor a	and/or the Technical/P	roject Authority) /	PARTIE 2	(complété p	ar le Contr:	a <i>c</i> %	aur at/ou le Respons	able technique / Charg	ê du projetj		
A. Contractor Resource(s) /				ouvės, saulos	les ressoure	Ç E S	suivantes pouvent f	aumir des services saus	la présense A).		
Name / Nom	ne / Nom Category / Catégorie			Level / Niveau			Level of Security / Niveau de sécurité		PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	Specialty in	er/Software De IBM Data Mar - Java Develop	nagement	3	Engl	English / Anglais		Secret		1016058	
B. Estimated Cost / Coût es	timatif									······································	
Category / Catégori	ie	Level / Niveau	Per Diem Rate / Taux journalier				(days) / Ni	Level of Effort veau d'effort tif (jours)	Total Cost / Coût estimatif		
+ prammer/Software Develop - n IBM Data Mangement (MI Development		3		***************************************					\$1	97,500.00	
Programmer/Software Develop in IBM Data Mangement (MI Development		3					\$1	18,500.00 🗸			
						Es	timated Cost	/ Coût estimatif	\$3	16,000.00 🗸	
	Total (Estimated Tra	vel and Living	g Cost / C	oút tot	al	estimatif de v	oyage et de vie		\$0,00	
Taxe % applied / % de tax	es appliquées	13.000			Appli	ca	ble Taxes / Ta	xes applicables	S4	11,080.080,11	
				Tota	al Estim	at	ed Cost / Coů	t total estimatif	\$3	57,080.00 🗸	



Public Works and Inavaux publics et Conveniment Services Services governmentetaux Canada

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifyties) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 , Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise l'autorité contractante de TPSGC pour autorisation.				
Name of Authorized Client Nom du client autorise Date Signature JUL 19 2018 Date	Name of Contracting Authority / Nom de l'autorité contractante Villeneuve, Signature Julie 3 Date Digitally signed by Villeneuve, Julie 3 Date: 2018.10.19 08:49:05 -04'00'				

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLOHAM	ACLOUNT EXECUTIVE	moel	07/26/2018
isame and Title of individual authorized to sign on de la personne autorisée à signer au nom de l'entre	behalf of the Contractor / Nom et titre Sig	nature	Date

A. Contractor Resource(s) / Ressource(s) du Contracteur

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project At	uthority) / PARTI	E 1 (complété par l	le Responsable technique / Charge	é du projet)					
A. General Information / Inform	nations généra	ales .							
Contract Number / Numéro du contr	rat : 47060-152	116/002/EL							
Contractor Name / Nom du Contract	eur : DONNA CO	DNA INC.							
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No l'engagement :	mitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by agement : financier : d'émission : Réponse requise par :							
2019002452	1000339847	192040060/6001/10400 Oct 31, 2019 Nov 8, 2019							
B. For Amendments Only / Aux	fins de modifi	ication seule	<u>ment</u>						
Amendment No. / Nº de la modificat	ion : 2								
Reason for the Amendment / Raison	Reason for the Amendment / Raison pour la modification :								
Amendment #2 is raised for the folk 1) Extend end date from February 2. 2) Add 3)Increase total cost from 474,000.0	3, 2020 to Februa days total esti	mated level of							
C. TA Requirements / Exigence	s relatives à l' <i>l</i>	<u>AT</u>							
Required Resource(s) / Ressource(s)	requise(s)								
Category / Catégorie	:	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis				
Programmer/Software developer - S Master Data Management (MI Development		3		English / Anglais	+				
Statement of Work (tasks, deliverable		/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)					
See Attached Annex A - Statements	of Work								
Period of Services / Période de ser	vice:								
Initial Start Date / Date de début init	iale : Jan	24, 2019	Initial End Da	ite / Date de fin initiale :	May 31, 2019				
Extented End Date (See Reason for the	he Amendment)	/ Date de fin pr	rolongée (voir Raison p	our la modification) :	Feb 23, 2021				
Option To Extend Initial End Date	e / Option pour p	orolonger la dat	te de fin initiale						
Travel Requirement(s) / Exigence(s) of	de voyage :	N/A							
Work Location(s) / Lieu(x) de travail :		333 North I Capital Reg	·	tario, K1A 0L8 or an alterna	tive CBSA location in the National				
PART 2 (completed by the Contractor and/or t	he Technical/Project Autl	nority) / PART	IE 2 (complété par le Contract	eur et/ou le Responsable technique / Ch	argé du projet)				

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Mark Coldham

TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Cate	Category / Catégori		Level / Niveau		uistic Profile / le linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Specialty Manage	r/Software De in IBM Maste ment (MDM) - evelopment	r Data	3	3 English / Anglais					
B. Estimated Cost / Coût es	<u>stimatif</u>									
Category / Catégor	ie	Level / Niveau	l	m Rate / I ournalier	aux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
+ grammer/Software Develop - IBM Master Data Managem Java Developmen	ent (MDM) -	3						\$948,000.00		
	Total E	Estimated Trav	vel and Livin	g Cost / C	oût to		: / Coût estimatif voyage et de vie	\$9	\$0.00	
Taxe % applied / % de tax	kes appliquées	13.000	Applicable Taxes / Taxes applicables					\$1	\$123,240.00	
	I			Tota	al Estin	nated Cost / Co	ût total estimatif	\$1,	.071,240.00	
PART 3 - TA APPROVA	L BY CANA	DA / PART	TE 3 - AP	PROBA	TIOI	N DE L'AT P	AR LE CANA	NDA		
By signing this TA, the authorized client a certify(ies) that the content of this TA is in						-	le client autorisé et/o e AT est conforme aux		ntractante de TPSGC u contrat.	
The client's authorization limit is \$300,00 including GST/HST) is in excess of this lir overarded to the PWGSC Contracting Au	mit, the TA must be	signed by the autl		nd (inclua	nt la TPS		e limite, l'AT doit être		e l'AT et ses modification client autorisé et transi	
Name of Authorized Client / Nom du cl					ité contr ud,	acting Authority / N actante Digitally signed by Michaud, Daniel Digitally signed by Michaud, Daniel Diff CN = Michaud, Daniel C = CA Diff CO U = PMSSC-TPSSC Diser-20200 AG 12-28-24, DADDY	lom de	Date		

DocuSigned by:

igpeturec5A97F0424..

Account Executive

Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre

de la personne autorisée à signer au nom de l'entrepreneur

Page 000358

2020-04-06

Date



Travaux publics et Services gouvernementaux Canada

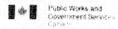
TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations	nánáralos									
Contract Number / Numéro du contrat :	<u>47060-152116/002/E</u>	:								
Contractor Name / Nom du Contracteur :										
Task Authorization (TA) No. N° de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Response required by Réponse requise d'ici le :								
2018001579	1000339848	39848 1920400060/6001/10400 Jan 18, 2020								
B. For Amendments Only / Aux fins de modification seulement										
Amendment No. / Nº de la modification :	4			•						
Reason for the Amendment / Raison pour la m	odification :									
Amendment #4 is raised for the following: 1) Extend end date from February 23, 2020 to February 23, 2021; 2) Add days total estimated level of effort; 3) Increase total cost from (All applicable taxes extra).										
C. TA Requirements / Exigences relatives à l'AT										
Required Resource(s) / Ressource(s) requise(s)	5)									
Category and Level Catégorie et Niveau	·	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	- ,	: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis					
Programmer/Software Developer - S Infosphere Information Server (IIS) Dat Stage Level 3		(Jours)								
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	raux (tâches, livrable	s, rapports, et	c.)	•					
See attached / Voir pièce jointe										
Period of Services / Période de service:	***************************************									
Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Ameno	05-Mar-2018 dment) / Date de fin prol			Date de fin initiale :	23-Feb-2021					
☐ Option To Extend Initial End Date / Option	pour prolonger la date d	de fin initiale								
Optional End Date(s) / Date(s) de fin		-	Sta	tus / Statut						
Х			O In Et	fect / en vigueur						
Travel Requirement(s) / Exigence(s) de voyage	n/a									

Envelope ID: 0B5582D8-9109-4D8D-8A5F-48	365531EEBE5						
Work Location(s) / Lieu(x) de travail :	ation(s) / Lieu(x) de travail : 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CB in the National Capital Region						
PART 2 (completed by the Contractor and/or the Technical/Project	at Authority) / PARTIE 2 (co	omplété par le Contracteur et/ou	le Responsable techn	ique / Chargé du projet)			
Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services u	Cost / Ressource(s)	du Contracteur (et Coût tota les peuvent fournir des	l estimatif s services sous la présente AT			
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif		
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development		English/Anglais		-	\$1,179,800.00		
			Estimated	Cost / Coût estimatif	\$1,179,800.00		
-	Total Estimated Travel ar	nd Living Cost / Coût	t total estimati	f de voyage et de vie	\$0.00		
Taxes % applied # % taxes appliquées	Taxes % applied # % taxes appliquées 13 Applicable Taxes / Taxes applicables						
		Total Esti	mated Cost /	Coût total estimatif	\$1,333,174.00		
Check applicable Basis of Pa Cocher la Base de Paiement a		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :			
PART 3 - TA APPROVAL BY CANA By signing this TA, the authorized client authority and Authority certify(ies) that the content of this TA is in a conditions of the Contract.	l/or the PWGSC Contracting	En apposant sa signa	ture sur l'AT, le d	R LE CANADA client autorisé et/ou l'auto cette AT est conforme au	orité contractante de ux conditions du contrat.		
The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in except be signed by the authorized client and forwarded to the Authority for authorization.	ss of this limit, the TA must	modifications (excluant les taxes ap	plicables) dépas	50,000 \$. Lorsque la vale use cette limite, l'AT doit actante de TPSGC pour	être signée par le client		
Name of Technical Authority / Nom de l'autorité tech	ni Date	Michaud	Authority / Nom gitally signed by: cháud, Daniel vi: CNI = Michaud, Daniel EA O = GC OU = v/GSC-TPSGC abs: 2020.03.16 16:36:18 - 1000	de l'autorité contractante	Date		
	_	Signature					

Mark Coldham	Account Executive		OccuSigned by:	2020-03-17
	ized to sign on behalf of the Contractor /	Signature	14384163WAVE04#4	Date
Nom et titre Signature de la person	ne autorisée à signer au nom de l'entreprene	eur		



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	<u>rmations géné</u>	<u>rales</u>				
Contract Number / Numéro du coi	ntrat : 47060-15	2116/002/EL	and the second section of the			
Contractor Name / Nom du Contra	icteur : Donna Co	onna Inc				***************************************
Task Authorization (TA) No. / Nº	Commitment 1	***************************************	Financial Coding / Code	Date of Issuance / E	Pate Response requ	ated by 2
de l'autorisation de tâches (AT) :	l'engagement		linancier:	d'émission :	Réponse requi	
2018001579	1000339848		192040060/6001/34210	Jul 17, 2018	Jul 19, 2018	
3. For Amendments Only / Au	ıx fins de modi	fication seul	ement			· · · · · · · · · · · · · · · · · · ·
Amendment No. / Nº de la modific	ation : 1					
Reason for the Amendment / Raiso	on pour la modifi	ation :				**************************************
Add an additional days		·····				**************************************
					**	
C. TA Requirements / Exigence	es relatives à l'	AT				
Required Resource(s) / Ressource(s						
Category / Caté gori		Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Levelis) of Se Niveau(x) de sécurité ra	
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage		3		English / Anglais	Secret	
ratement of Work (tasks, deliverat	oles, reports, etc.)	/ Énoncé des t	ravaux (tāches, livrables	, rapports, etc.)		
litte		InfoSphere In	formation Server (IIS) Da	itaStage and QualityStage		
Title Programmer / Software Developer	- Level 3 - in I8M					
Programmer / Software Developer Background The Canada Border Services Agency Border modernization efforts. The I Bapital projects and the associated	y (CBSA) is under nformation, Scier information tech	ice and Techno nology solutio	ology Branch (ISTB) supp ns. Traditional IT functio	oort these efforts with over ins have been augmented	sight and alignment of with program directoral	major tes that
	y (CBSA) is under nformation, Scier information tech ts and alignment nent and implem	ace and Technonology solution of business solution of the	ology Branch (ISTB) supp ns. Traditional IT functio lutions in portfolios for	oort these efforts with over ins have been augmented Travelers, Commercial, Con	sight and alignment of with program directoral nmon and Corporate pri	major tes that ojects.
Programmer / Software Developer lackground The Canada Border Services Agency lorder modernization efforts. The lack apital projects and the associated lrive business transformation effor o advance the planning, developn	y (CBSA) is under information, Scier information tech ts and alignment nent and implem systems, projects on Services Portfi that can be lever	nce and Techno nology solution of business so entation of the and services olio Directorate aged by other	ology Branch (ISTB) supposes. Traditional IT function lutions in portfolios for Agency's transformation (CSPD) has undertaker initiatives including the	oort these efforts with over ins have been augmented of Travelers, Commercial, Con on agenda, ISTB is impleme in the Master Data Managen Entry/Exit (E/E), BioMetrics	sight and alignment of with program directoral nmon and Corporate pronting an enterprise apport of Service (MDMS), to	major tes that ojects. roach to i put in



Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application reguliements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2. Data Preparation and Loading Service (DPLS);
- 3. MOM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETI, jobs for initial loads;
- Follow the CBSA project development life cycle with the identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- · Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions;
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and quidelines:
- Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
 Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team;
- 1. for the maintenance of CDQS;
- 2 for the development of OPLS
- 3. Data Cleansing:
- 4. Data Standardization;
- 5. for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- i. Fixing functional defects:
- Addressing non-functional defects related to ETL jobs, DPLS and CDQS;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- Produce SLME documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

Deliverables

The Contractor shall deliver the following:

- · Feedback report on the DPLS and Initial Load development plan. To be delivered in email or word format. Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word
 tormat following the SLMF template. By February 15, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization, By January 31, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes;
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- Testing,
- Support of Data extract;
- DataStage jobs to load data extract into DML tables;
- DataStage/ QualityStage jobs to run cleanse/standardization;
- Datastage jobs to create XML load file for MDM.



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TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

To be delivered in a Word format. By Septembe Develop DPLS application and Initial Load Jobs (2018).	eady for use (RFI			o the transit	ion enviror	iment for	User Acc	eptance tesi	ting. By May 31,
8i-Weekly Status Report outlining the Identificat	ion of any issues	orcon	icerns;						
All deliverables must be provided in conformance Excel, Visio and PowerPoint) and Archimate in Eng	e with CBSA's star	ndard c	desktop c	perating sol	ftware whi	th is Micro	soft Offi	e Suite (incl	luding Word,
All deliverables must be provided in a manner the Authority. All deliverables must be in the format of All deliverables must be provided to the Project Abeing presented, the Project Authority will notify deliverable.	ut permits integra of or compatible outhority for their	with th	he (SLMF) w and acc	Service Life eptance. Sh	Cycle Man ould there	agement l be proble	Framewo ms or iss	irk. ues with the	deliverables
Technical Environment As defined in Section 12 of the contract number 4 Constraints	1 7050-152115/00)2/EL.							
At no time and in no way is CBSA data to be remo or ling (e.g. VPN) be permitted. The contractor muthe contract.	ved from CBSA si st comply with C	ites, no IBSA in	or will acc nternal sec	ess to or fror urity policie	m the Cont es, directive	ractor's IT s, standar	systems ds, and g	through the uidelines at	use of a session all times during
The CBSA's working hours are between 07:00 to 11 These are core hours and are not representative or Language.					utory Halid	ays where	Governi	ment Offices	are closed.
The proposed Resource will be required to perform proposed must be able to communicate grally and								English, The	individual
Reporting Requirements									
If a TA has been authorized, the resource must pro was undertaken during the reporting period, what attention of the Project Authority. The status repo template.	t work is still outs	standin	ig, and an	y issues or c	oncerns th	at the reso	ource wa	nts to identi	ly to the
Location of Work									
The work is expected to be performed on CBSA prothe National Capital Region. There is no travel requ					wa, Ontaris), K1A 0L8	or an alt	ernative CB!	SA location in
Client Support The contractor will be provided with a CBSA user II required. CBSA will provide each resource with a b	D. password, wor uilding access pa	rkstatio ass, net	on and ea twork acc	nail address ount when v	and other working in	materials CBSA pren	(support nises.	ing docume	ntation) as
Period of Services / Période de service:		************		•	***************************************				
nitial Start Date / Oate de début initiale :	lar 5, 2018] Initial	End Date / D	Date de fin	nitiale :		Dec 31, 20	118
Extented End Date (See Reason for the Amendmen	t) / Date de fin pr	rolonge	ée (voir R	sison pour la	a modificat	ion):			
Option To Extend Initial End Date / Option pour	prolonger la dat	te de fii	ın initiale						
fravel Requirement(s) / Exigence(s) de voyage :	No Travel r	equirer	ments						
								managana arang arang aran	

PART 2 (completed by the Contractor and/of the Technical/Project Authority) / PARTIE 2 (complete par le Contracteur et/ou le Responsable technique / Chargé du projet)

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	/ Ressource(s) du Contracteur urces may proyate services under thin IA - Nota - gire fois appro	uvee sevles l	to oxio de a firmante de primere de	lisianur den vervice» stais la presente Al		
Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / № du dossier de securité TPSGC	
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage		English / Anglais	Secret	95942096	

B. Estimated Cost / Coût estimatif				
Category / Categorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Cout estimatif
+ prammer/Software Developer - Specialty IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	3		the control of the co	\$170,000.00
Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and Quality Stage	3			\$68,000.00 🗸
			stimated Cost / Coût estimatif	\$238,000.00 🗸
Total E	stimated Trav	vel and Living Cost / Coút tota	il estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$30,940.00
от с уст пот в то не написания по сто о о се со стоит свое се со се со на написания на написания на свое со сто		Total Estima	ated Cost / Coût total estimatif	\$268,940.00

ly signing this TA, the authorized Client authority and/or the PWGSC Contracting Authority endynes) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'Af, le client autorisé et/ou l'autorité contractante de TPSGC attesteint) que le contenu de cette AT est conforme aux conditions du contrat.
the client's author cation limit is \$300,000.00. When the value of a TA and its amendments including a \$45,56 is in excess of this limit, the TA must be signed by the authorized client and covarious to the Miss Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000,00. Lorsque la valeur de l'A1 et ses modifications tinchiant la TPS/TVH1 depayse cette limite, l'A1 doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation. Mansour, Silvana Digitally signéed by Mansour, Silvana Date: 2018.08.22 08:48:04-04'00'
traine of authorized them team on them automic. Date	Name of Contracting Authority / Nom de Date Lautonté contractante
The state of the s	Signature

MARK QUOTTAM ACCOUNT EXECUTIVE	Male	07/26/208
Frame and Effect individual authorized to sign on behalf of the Contractor / Nom et titre	Signature	Date
ue la personne autoritée à vigner au nom de l'endepreneur		
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Tasks and Deliverables

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

A. General Information / Informa	ations génér	ales				
Contract Number / Numéro du contra	t: 47060-152	2116/002/EL				
Contractor Name / Nom du Contracte	ur : Donna Co	nna Inc.				
	ommitment N engagement :		Financial Coding / Code financier :	Date of Issuance / D	Pate Response required by / Réponse requise par :	
2018001579	000339848		192040060/6001/34210	Oct 17, 2018	Oct 31, 2018	
3. For Amendments Only / Aux fi	ins de modif	ication seul	ement			
mendment No. / Nº de la modificatio	n : 2		***************************************		· ·	
Reason for the Amendment / Raison p	oour la modific	ation :				
This amendment is being raised to inc February 23, 2019.	rease the TA b	y \$144,500.00	(before taxes), increase	the level of effort by da	ys, and extend the end date to	
TA Requirements / Exigences r	relatives à l'	AT.				
equired Resource(s) / Ressource(s) red						
Category / Catégorie		Level / Niveau  Level / Niveau  d'effort estimatif (jours)		Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis	
rogrammer/Software Developer - Sp InfoSphere Information Server (IIS) Da QualityStage		3		English / Anglais	Secret	
itatement of Work (tasks, deliverables	, reports, etc.)	/ Énoncé des 1	ravaux (tâches, livrables	s, rapports, etc.)		
application/Software Specialty in IBM	InfoSphere Inf	ormation Serv	er (IIS) DataStage and C	QualityStage		
lumber of resources: One Programme	er/Software De	veloper - Spe	cialty in IBM InfoSphere	Information Server (IIS) Date	taStage and QualityStage	
itle: Programmer / Software Develope	er – Level 3 – i	n IBM InfoSph	ere Information Server (	IIS) DataStage and QualityS	itage	
ackground he Canada Border Services Agency (C order modernization efforts. The Info apital projects and the associated info rive business transformation efforts a	rmation, Scien ormation techi	ice and Techni nology solutio	ology Branch (ISTB) supp ns. Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment of major with program directorates that	
o advance the planning, developmen ne management of its portfolio of syst			e Agency's transformation	on agenda, ISTB is impleme	enting an enterprise approach to	
support of the above, the Common s lace an Enterprise Building Blocks tha f the Entry/Exit project is dependent of	t can be lever	ged by other	initiatives including the	Entry/Exit (E/E), BioMetrics		
Objective to acquire professional services for one	e Application/	Software Deve	loper Level 3 to perforn	n the tasks and deliverable:	s below.	

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format,



to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2. Data Preparation and Loading Service (DPLS);
- 3. MDM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads;
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- Lead and facilitate Joint Application Architecture and Design sessions:
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and guidelines;
- · Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team:
- 1. for the maintenance of CDQS;
- 2. for the development of DPLS
- 3. Data Cleansing;
- 4. Data Standardization;
- 5. for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- 1. Fixing functional defects;
- Addressing non-functional defects related to ETL jobs, DPLS and CDQS;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- · Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

#### Deliverables

The Contractor shall deliver the following:

- Feedback report on the DPLS and Initial Load development plan. To be delivered in email or word format. Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word
  format following the SLMF template. By February 15, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization. By January 31, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- Testing;
- Support of Data extract;
- DataStage jobs to load data extract into DML tables;



Travaux publica et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

DataStage/QualityStage jobs to run cleanse/standardization;

- Datastage jobs to create XML load file for MDM.
- · To be delivered in a Word format. By September 30, 2018;
- Develop DPLS application and Initial Load Jobs ready for use (RFU) and migrate to the transition environment for User Acceptance testing. By May 31, 2018;
- · Bi-Weekly Status Report outlining the Identification of any issues or concerns;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Period of Services / Période de service:	10.			
Initial Start Date / Date de début initiale :	Mar 5, 2018	Initial End Date / Date de fin initiale :	Dec 31, 2018	
Extented End Date (See Reason for the Amen	dment) / Date de fin pro	olongée (voir Raison pour la modification) :	Feb 23, 2019	*******
Option To Extend Initial End Date / Option	n pour prolonger la date	e de fin initiale		
Travel Requirement(s) / Exigence(s) de voyago	e : N/A			•
Work Location(s) / Lieu(x) de travail :	333 North R	iver Road, Ottawa Ontario K1A 0L8		

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complete parte Contractor and/or the Technical/Project Authority) /

Taxe % applied / % de taxes appliquées

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	l (ateonry/Catéonrie I		Level / Niveau	_	istic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programme Specialty in IBN Server (IIS) Dat		nformation	3	Engli	sh / Anglais	Secret		95942096
3. Estimated Cost / Coût e	stimatif		*	*****		•			
Category / Catégo	rie	Level / Niveau		m Rate / 1 urnalier	aux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif	
+ grammer/Software Develo IBM InfoSphere Informatic DataStage and Quality	n Server (IIS)	3					¥.	\$:	382,500.00
					Ε	stimated Cos	t / Coût estimatif	\$3	382,500.00
	Total F	stimated Trav	el and Livin	a Cost / C	oût tota	l estimatif de	voyage et de vie		\$0,00

#### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

13.000

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise l'autorité contractante de TPSGC pour autorisation.				
Name of Contracting Authority / Nom de Date l'autorité contractante				
Signature Villeneuve, Julie 3 Date: 2018.10.18 15:16:37 -04'00				

Applicable Taxes / Taxes applicables

Total Estimated Cost / Coût total estimatif

#### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

/ . /
Date

\$49,725.00

\$432,225.00

PART 1 (completed by the Technical/Project Au	thority) / PAK III	(complété par	r le Responsable technique / Chargé	du projet)	
A. General Information / Inform	nations généra	<u>les</u>			
Contract Number / Numéro du contra	at: 47060-1521	16/002/EL			
Contractor Name / Nom du Contracto	eur : Donna Con	na Inc.		***************************************	
1	Commitment No. l'engagement :	•	inancial Coding / Code nancier:	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
2018001579	1000339848	1	92040060/6001/34210	February 11, 2019	February 15, 2019
B, For Amendments Only / Aux 1	fins de modific	ation seule	ment		
Amendment No. / Nº de la modificati	on : 3				
Reason for the Amendment / Raison	pour la modificat	tion :			
Amendment #3 is raised for the follo 1) Extend end date from February 23 2) Add 3)Increase total cost from \$382,500 to	s, 2019 to Februar days total estin	nated level of	,		
C. TA Requirements / Exigences	relatives à l'A	<u> </u>			
Required Resource(s) / Ressource(s) re	equise(s)				
Category / Catégorie Lev		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - S InfoSphere Information Server (IIS) I QualityStage		3		English / Anglais	Secret
Statement of Work (tasks, deliverable	es, reports, etc.)/	<u>Énoncé des tr</u>	avaux (tâches, livrables,	rapports, etc.)	
See Attached Annex A - Statement of	f Work				
Period of Services / Période de serv	ice;				
Initial Start Date / Date de début initia	ale: Mar	5, 2018	Initial End Dat	te / Date de fin initiale :	Dec 31, 2018
Extented End Date (See Reason for th	e Amendment) /	Date de fin pr	olongée (voir Raison po	our la modification) :	Feb 23, 2020
Option To Extend Initial End Date	/Option pour pro	olonger la dat	e de fin initiale		V
Travel Requirement(s) / Exigence(s) de voyage : N/A					
Work Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa Ont	ario K1A OL8	
PART 2 (completed by the Contractor and/or the	e Technical/Project Author	rity) / PART	TE 2 (complété par le Contracte	eur et/ou le Responsable technique / Cha	rgé du projet)
A. Contractor Resource(s) / Ress Note: once approved, only the following resources may proved the following resources may prove the following resources may prove the following resources may prove the following resources are proved to the following resources ar			is approuvée, seules les ressources s	sulvantes peuvent fournir des services so	us la présente AT.



Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile/ Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	95942096	+

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif				
3			\$771,800.00				
Estimated Cost / Coût estimatif							
Estimated Trave	el and Living Cost / Coût tota	ıl estimatif de voyage et de vie	\$0.00				
13.000	Applio	\$100,334.00					
Total Estimated Cost / Coût total estimatif							
	Niveau  3  Estimated Trave	Niveau journalier  3  Estimated Travel and Living Cost / Coût tota  13.000 Applic	Level / Niveau Per Diem Rate / Taux (days) / Niveau d'effort estimatif (jours)  3  Estimated Cost / Coût estimatif  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie  13.000  Applicable Taxes / Taxes applicables	Niveau Per Diem Rate / Taux (days) / Niveau d'effort estimatif  3 \$771,800.00  Estimated Cost / Coût estimatif \$771,800.00  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie \$0.00			

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.			En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
(including GST/HST) is in		e value of a TA and its amendments it be signed by the authorized client and orization.	La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisatio	it être signée par le client autorisé et transmise a		
Name of Authorized C	lient / Nom du client autorisé Digitally signed by PENWARDEN ROBERT	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date		
	DR: c=cs, u=gc, uu=ccra-arfrc, ou=PERSONNEL, cs:=PENWARDEN ROBERT,			Digitally signed by Villeneuve,		
ROBERT	Gerta/Maurichero 2015/06/92/31/118149 Date: 2019/02/11 15:56:14 -05/00/		Villeneuve, Julie			
Signature			Signature	Date: 2019.02.13 14:12:58 -05'00'		

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK GUDHAM	Male	fe 6 12, 2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

### STATEMENT OF WORK ANNEX A

#### Title:

Canada Border Services Agency requires one (1) Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage

#### **Background:**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

#### Objective:

Acquire professional services for one Application/Software Developer Level 3 to perform the tasks and deliverables below.

#### Tasks and Deliverables:

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

The Contractor must perform the following tasks:

- 1. Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1.1 Commercial Data Quality Service (CDQS); and
- 1.2 Data Preparation and Loading Service (DPLS);
- 1.3 MDM initial load

- 2. Implement IBM DataStage/QualityStage procedures and decision flow best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads
- 3. Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability, performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- 4. Provide analysis to define system functionality using the Unified Modeling Language (UML);
- 5. Lead and facilitate Joint Application Architecture and Design sessions;
- 6. Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and guidelines;
- 7. Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- 8. Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- 9. Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- 10. Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- 11. Develop code based upon design and requirements documents for the Identity Management team:
  - 11.1 for the maintenance of CDQS;
  - 11.2 for the development of DPLS
    - 11.2.1 Data cleansing
    - 11.2.2 Data Standardization
  - 11.3 for the development of ETL and Initial Load processes.
  - 11.4 for the integration of Initial Load processes with CBSA automation tools
- 12. Support Quality Assurance activities;
  - 12.1 Fixing functional defects
  - 12.2 Addressing non-functional defects related to ETL jobs, DPLS and CDQS
- 13. Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- 14. Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- 15. Monitor the need for design changes as the MDMS & Entry Exit project progresses;

- 16. Define assumptions and constraints of architecture with regard to physical structure and data collection;
- 17. Develop post-implementation plan for monitoring/tracking design stability;
- 18. Perform and coordinate impact analysis of design and technology changes;
- 19. Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- 20. Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- 21. Produce SLMF documentation for design and component development;
- 22. Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.
- 23. Mentor CBSA staff on DPLS and CDQS deliverables to enable the CBSA to provide on-going support and maintenance

#### **Deliverables:**

- 1. Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be updated in a Word format following the SLMF template as required;
- 2. Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization to be updated as required;

Develop Dynamic Risking ETL code to generate PME tuning data set - March 2019

Develop Dynamic Risking ETL code to generate MDM ingestion transactions - May 2019

Develop Dynamic Risking ETL code to create analytical files for mathematical lab consumption and building risking algorithms – June 2019

Develop ICES ETL scripts for MDM initial ingestion – November 2019

Develop ICES data cleansing jobs for MDM ongoing ingestion - October 2019

- 3. Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the new rules for Dynamic Risking and ICES integration;
- · Testing;
- Support of Data extract;

- DataStage jobs to load data extract into DML tables;
- DataStage/ QualityStage jobs to run cleanse/standardization;
- Datastage jobs to create XML load file for MDM.

To be delivered in a Word format. By September 30, 2019;

- 4. Status Report outlining:
- Identification of any issues or concerns;
- Time sheet mapped to deliverables;

To be delivered to the Project Authority, in a MS Word format. Weekly.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### **Technical Environment:**

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### **Constraints:**

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language:

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### **Reporting Requirements:**

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### **Location of Work:**

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

#### **Client Support:**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Tasks and Deliverables

Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project A	Authority) / PART	E 1 (complété par	le Responsable technique / Chargé	é du proje	et)				
A. General Information / Information	mations généra	ales	25					***************************************	
Contract Number / Numéro du contrat : 47060-152116/002/EL									
Contractor Name / Nom du Contrac	teur : Donna Cor	nna Inc.							
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :	Commitment No l'engagement :	nmitment No. / N° de Financial Coding / Code Date of Issuance / Date Response required by / gagement: d'émission: Réponse requise par :							
2018001579	1000339848						Mar 2, 2018		
B. For Amendments Only / Aux	x fins de modif	ication seule	ment						
Amendment No. / Nº de la modifica	tion:								
Reason for the Amendment / Raison	n pour la modific	ation:							
								***************************************	
C. TA Requirements / Exigence		<u>/1</u>							
Required Resource(s) / Ressource(s)	requise(s)		<b>T</b>	ı		1		1	
Category / Catégorie Level		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Ling	uistic Profile / Profile linguistique		red Level(s) of Security / u(x) de sécurité requis		
Programmer/Software Developer - InfoSphere Information Server (IIS) QualityStage		3			English / Anglais	Secret		+	
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapp	orts, etc.)				
Application/Software Specialty in IE  Number of resources: One Program  Title: Programmer / Software Devel  Background	nmer/Software De	eveloper - Spec	ialty in IBM InfoSphere	Inforn	nation Server (IIS) Dat		and QualityStage		
The Canada Border Services Agency Border modernization efforts. The li capital projects and the associated drive business transformation effor	nformation, Scier information tech	nce and Techno nology solutior	ology Branch (ISTB) sup ns. Traditional IT functio	port th	hese efforts with over ive been augmented	rsight ai with pr	nd alignment of major rogram directorates that		
To advance the planning, developn the management of its portfolio of			Agency's transformation	on age	enda, ISTB is impleme	enting a	an enterprise approach to	0	
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other i	initiatives including the	e Entry	//Exit (E/E), BioMetrics	ment Se s and Ul	ervice (MDMS), to put in PASS projects. The delive	ery	
Objective To acquire professional services for	one Application/	′Software Deve	loper Level 3 to perforr	m the	tasks and deliverable	s below	٧.		

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format,

to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

To provide CBSA with technical expertise and guidance and development support, ongoing until the end of the TA, on the following:

#### The Contractor must perform the following tasks:

- Develop and integrate technical frameworks and strategies, in order to meet the business and application requirements for the:
- 1. Commercial Data Quality Service (CDQS); and
- 2. Data Preparation and Loading Service (DPLS);
- 3. MDM initial load
- Implement IBM DataStage/QualityStage procedures and decision flows best practices for maintaining CDQS, the development of DPLS and ETL jobs for initial loads;
- Follow the CBSA project development life cycle with the Identity Management team in engineering a cleansing/standardization solution based on non-functional requirements (e.g. reliability,
- performance, usability, enhanced portability, high volumes) for CDQS and DPLS;
- Provide analysis to define system functionality using the Unified Modeling Language (UML);
- · Lead and facilitate Joint Application Architecture and Design sessions;
- Identify and document IBM DataStage/QualityStage and Extract, Transform and Load (ETL) specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions while conforming to the CBSA's standards and quidelines;
- · Identify and document IBM DataStage/QualityStage Jobs that perform Data Cleansing and Data Standardization
- Analyze and impact potential Cleansing/Standardizing releases that could impact CDQS and DPLS.
- Provide advice, recommendations, and mentoring on IBM DataStage/QualityStage Jobs and ETL processes to the Identity Management team;
- Develop and present briefings/presentations related to the IBM DataStage/QualityStage Jobs and ETL process to business clients, IT partners and senior management as required;
- Develop code based upon design and requirements documents for the Identity Management team:
- 1. for the maintenance of CDQS;
- 2, for the development of DPLS
- 3. Data Cleansing;
- 4. Data Standardization;
- 5, for the development of ETL and Initial Load processes;
- 6. for the integration of Initial Load processes with CBSA automation tools;
- Support Quality Assurance activities;
- 1. Fixing functional defects;
- 2. Addressing non-functional defects related to ETL jobs, DPLS and CDQS;
- Executing and monitoring Initial Load Jobs across all CBSA STAR environment;
- Unit test the code for CDQS, DPLS and ETL prior to releasing it for integration testing;
- Monitor the need for design changes as the MDMS & Entry Exit project progresses;
- Define assumptions and constraints of architecture with regard to physical structure and data collection;
- Develop post-implementation plan for monitoring/tracking design stability;
- Perform and coordinate impact analysis of design and technology changes;
- · Advise project leader/manager on planning and controlling projects using an iterative development approach for the CDQS, DPLS and ETL tasks;
- Provide recommendations on enhancing application performance for the cleansing and standardizing components CDQS, DPLS and ETL processes;
- Produce SLMF documentation for design and component development;
- Participate in the reviews for design, coding, detailed level design and system use cases related to DPLS, CDQS and ETL processes.

#### Deliverables

The Contractor shall deliver the following:

- Feedback report on the DPLS and Initial Load development plan. To be delivered in email or word format. Within 2 weeks of start of TA;
- Critical Design Review (CDR) documentation for DPLS including the Architecture Design and Specification (ADS) documents. To be delivered in a Word format following the SLMF template. By March 30, 2018;
- Interface Control Documentation (ICD) and Web Service Definition Language (WSDL) and XML Schema Definition (XSD) schema for DPLS Data Cleansing and Data Standardization. By April 06, 2018;
- Documented Industry best practices and guidance with regards to DPLS (Data Cleansing and Standardization), Initial Load Jobs which includes:
- Data Analysis Report;
- Cleansing & Standardization rule development including the definition of the rules;
- Testing;
- Support of Data extract;
- DataStage jobs to load data extract into DML tables;

Travaux publics et Services gouvernementaux

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

- DataStage/ QualityStage jobs to run cleanse/standardization;
- Datastage jobs to create XML load file for MDM.
- To be delivered in a Word format. By September 30, 2018;
- Develop DPLS application and Initial Load Jobs ready for use (RFU) and migrate to the transition environment for User Acceptance testing. By May 31, 2018;
- Bi-Weekly Status Report outlining the Identification of any issues or concerns;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work

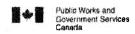
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

Client Support

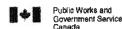
The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

Period of Services / Période de service:								
Initial Start Date / Date de début initiale :	Mar 5, 2018	Initial End Date / Date de fin initiale :	Dec 31, 2018					
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :								
Option To Extend Initial End Date / Option po	our prolonger la date	e de fin initiale						
Travel Requirement(s) / Exigence(s) de voyage:	N/A							
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa Ontario K1A 0L8								

A. Contractor Paramental		· \ du Contra								***************************************
A. Contractor Resource(s)  vote: once approved, only the following resources				ouvée, seules	les ressource	es sulvantes peuvent	fournir des services sou	s la présente AT.		
Name / Nom	Category / Catégorie		Level / Niveau	Level / Linguistic Profile / L		Level of Security / Niveau de sécurité		PWGSC Security File No. / № du dossier de sécurité TPSGC		
	Specialty in IB	ogrammer/Software Developer - ialty in IBM InfoSphere Information 3 English / Anglais Secret er (IIS) DataStage and QualityStage					95942096			
3. Estimated Cost / Coût e	stimatif			•••••						***************************************
Category / Catégo	Category / Catégorie		m Rate / 1 urnalier	Rate / Taux rnalier Estimated Level of (days) / Niveau d'e estimatif (jour		iveau d'effort	Total Cos estimatif		***************************************	
+ prammer/Software Develo - IBM InfoSphere Informatio DataStage and Quality	on Server (IIS)	3							\$170,000.00	
					Ε	stimated Cost	:/Coût estimatif	\$1	170,000.00	
	Total	Estimated Trav	rel and Living	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	
Taxe % applied / % de ta	xes appliquées	13.000			Applic	able Taxes / T	axes applicables	\$:	\$22,100.00	
	•			Tota	ıl Estima	ted Cost / Coi	ût total estimatif	\$1	92,100.00	
ART 3 - TA APPROVA	L BY CANA	DA / PART	IE 3 - API	PROBA	TION	DE L'AT P	AR LE CANA	\DA		
y signing this TA, the authorized client ertify(ies) that the content of this TA is i	,		-				e client autorisé et/o AT est conforme au			***************************************
ne client's authorization limit is \$300,00 ncluding GST/HST) is in excess of this li invarded to the PWGSC Contracting Au	imit, the TA must be :	signed by the auth		d (inclua	nt la TPS/T		limite, l'AT doit être		e l'AT et ses modificatio client autorisé et transn	
Robert Pendent Moment autorisé Date  Rame of Authorized Client Nom du client autorisé  Date					of Contract té contract	ting Authority / No tante	om de	Date		
Signature Andrew	ohn_			Signati	ıre					
ART 4 - CONTRACTO	R SIGNATUI	RE / PARTI	E 4 - SIGI	VATUR	E DU	CONTRAC	TEUR			***************************************
Mark Cold Fran Name and Title of Individual authorized de la personne autorisée à signer au no	d to sign on behalf o	of the Contractor / I	CCL HOP Nom et titre	Signa	A. C			FOL,	272018	?



PART 1 (completed by the Technical/Project	Authority) / PARTI	<b>E 1</b> (complété p	r le Responsable technique / Charge	du projet)				
A. General Information / Infor	mations généra	<u>ales</u>						
Contract Number / Numéro du con	itrat ; 47060-152	116/002/EL						
Contractor Name / Nom du Contra	cteur : Donna Cor	nna inc.						
Task Authorization (TA) No. / N° Commitment No. / N° de l'autorisation de tâches (AT): l'engagement; financier: Date of Issuance / Date of Issuanc								
de l'autorisation de tâches (AT) : 2018001614	l'engagement; 1000337306		192040060/2001/16100	February 27, 2018	March 01, 2018			
B. For Amendments Only / Au	x fins de modif	ication seul	ement					
Amendment No. / Nº de la modifica								
Reason for the Amendment / Raiso	L	ation :						
Extend the end date to August 31,		days to the TA	······································		*			
C. TA Requirements / Exigenc	es relatives à l'/	AI.						
Required Resource(s) / Ressource(s	) requise(s)							
Category / Catégorie Level / Niv			Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of So Niveau(x) de sécurité i			
Programmer/Software Developer (probabilistic Matching Engloc algorithm developm	e) - Matching	3		English / Anglais	Secret	4		
Statement of Work (tasks, delivera								
Programmer/Software Developer	- Specialty in PME	(Probabilistic	Matching Engine) - Matc	thing algorithm developme	ent			
Background								
The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.								
To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.								
In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.								
Tasks and Deliverables				*:				
The Contractor must provide the p to be followed by a final product in identify the resources and the resp	ncorporating comi	ments of the (	ISPD project manager (c	or their delegates). It is the (	Contractor's responsibil	lraft format, lity to		
Tasks								



The resource will provide CBSA with technical expertise and quidance on the following topics:

- Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required
- · Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- · Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Provide System Use Cases, system requirements for PME due January 31, 2018;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due May 31, 2018:
- Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due January 31, 2018;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due August 31, 2018;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of TA;
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

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#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard



template.								
Location of Work								
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.								
Client Support							İ	
The contractor will be provi required. CBSA will provide						ocumentation) as		
Period of Services / Périod	e de service:							
Initial Start Date / Date de d	ébut initiale :	Jan 8, 2018	Initia	al End Date / Date de fi	in initiale : Ap	r 30, 2018		
Extented End Date (See Rea	son for the Amendm	ent) / Date de fin prolon	gée (voir	Raison pour la modific	cation):	g 31, 2018		
Option To Extend Initial	End Date / Option po	our prolonger la date de	fin initial	e				
Travel Requirement(s) / Exigence(s) de voyage : N/A								
Work Location(s) / Lieu(x) de	e travail :	333 North River Capital Region.	Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA location	n in the National		
PART 2 (completed by the Contra	Cor and/or the Technical/Proje	ce Authority) / PARTIE 2	(comp <b>ile)</b> p	er le Contractauf av/ou le Respons	sable (echnique / Chargé du grojet).			
A. Contractor Resource  Note: once approved, only the following r			ouvée, seules l	es ressources suivantes peuvent l	fournir des services sous la présente Al	•		
Name / Nom	Catego	Category / Catégorie		Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / N° du dossier de sécurité TPSGC		
	Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development  Secret						[+] [-]	
B. Estimated Cost / Coût	estimatif							

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty pME (probabilistic Matching Engine) - Matching algorithm development	3			\$228,000.00
	\$228,000.00			
Total E	stimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	\$29,640.00	
	\$257,640.00			

Taxe % applied / % de taxes appliquées	13.000	Applicable Taxes / Taxes applicables	\$29,640.00
	•	Total Estimated Cost / Coût total estimatif	\$257,640.00
PART 3 - TA APPROVAL BY CANAC	A /PARTIE 3 -	APPROBATION DE L'AT PAR LE CANA	UDA ( ) ( )
By signing this TA, the authorized client authority and/or the f certify(les) that the content of this TA is in accordance with the			
The client's authorization limit is \$300,000.00. When the value (including GST/HST) is in excess of this limit, the TA must be si forwarded to the PWGSC Contracting Authority for authorizat	gned by the authorized cl		jue la valeur de l'AT et ses modifications signée par le client autorisé et transmise à
Name of Authorized Client / Nom du client autorisé Date		Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature 7 Arra War		Signature	
PART 4 - CONTRACTOR SIGNATUR	E / PARTIE 4 -	SIGNATURE DU CONTRACTEUR	事件 探傷詞
Blair Sundaland Arct E	cec		march 27/18

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGN	VATURE DU CONTRACTEUR	
Alair Sundalaul Ard Exec	AAAA)	march 27/18
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Administration	Date



Tasks

### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (completé par le Responsable technique / Chargé du projet)

A. General Information / Infor	mations génér	ales						
Contract Number / Numéro du con		116/002/EL				<b>**</b>		
Contract Number / Numero du con	11ac. 147000-132	110/002/LE						
Contractor Name / Nom du Contrac	cteur : Donna Cor	nna Inc.						
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :	Commitment No l'engagement :		inancial Coding / Code nancier :	Date o d'émis	f Issuance / Da sion :		nse required by / se requise par :	
2018001614	1000337306		92040060/2001/16100	Augus	t 31, 2018	Augus	st 31, 2018	
B. For Amendments Only / Au	x fins de modif	ication seule	ement					
Amendment No. / № de la modifica	ation: 2							
Reason for the Amendment / Raiso	on pour la modific	ation :						
Extend the end date to February 23	3, 2019 with no ex	tra funds to th	e TA.			***************************************	<u></u>	
C. TA Requirements / Exigence	es relatives à l'/	<u>\T</u>						***************************************
Required Resource(s) / Ressource(s)	) requise(s)							
Category / Catégori	ie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)		rofile / Profile istique		el(s) of Security / sécurité requis	
Programmer/Software Developer - (probabilistic Matching Engine algorithm developme	e) - Matching	3		English	/ Anglais	Secret		+
Statement of Work (tasks, deliveral	bles, reports, etc.)	/Énoncé des t	ravaux (tâches, livrables	s, rapports, et	с.)			•
Programmer/Software Developer -	Specialty in PME	(Probabilistic N	Matching Engine) - Matc	hing algorith	m developme	ent		
Background								
The Canada Border Services Agenc Border modernization efforts. The capital projects and the associated drive business transformation effor	Information, Scier information tech	ice and Techno nology solution	ology Branch (ISTB) sup ns. Traditional IT functio	port these eff ons have beer	orts with over augmented	sight and aligi with program	nment of major directorates that	
To advance the planning, develope the management of its portfolio of			Agency's transformation	on agenda, IS	TB is impleme	enting an ente	rprise approach to	)
In support of the above, the Comm place an Enterprise Building Blocks of the Entry/Exit project is depende	that can be lever	aged by other	initiatives including the	Entry/Exit (E.	/E), BioMetrics			ery
Tasks and Deliverables								
The Contractor must provide the p to be followed by a final product in identify the resources and the resp	corporating com	ments of the C	SPD project manager (o	r their delega	ites). It is the (	Contractor's re	sponsibility to	ıat,

The resource will provide CBSA with technical expertise and guidance on the following topics:

- Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required
- · Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Provide System Use Cases, system requirements for PME due January 31, 2018;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due May 31, 2018;
- Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due January 31, 2018;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due August 31, 2018;
- Configure PME based on iterative tuning requirements. Ongoing to end of TA.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to end of TA;
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.



Location of Work									
The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.									
Client Support									
The contractor will be provide required. CBSA will provide ea						ocumentation) as			
Provide System Use Cases, sy	stem requirements	s for PME due January 3	1, 2018;						
Period of Services / Période	de service:								
Initial Start Date / Date de déb	ut initiale :	Jan 8, 2018	Initia	al End Date / Date de f	in initiale : Apr	30, 2018			
Extented End Date (See Reason	n for the Amendme	ent) / Date de fin prolon	gée (voir	Raison pour la modific	cation): Feb	23, 2019			
Option To Extend Initial En	d Date / Option po	ur prolonger la date de	fin initial	e					
Travel Requirement(s) / Exigen	ce(s) de voyage :	N/A							
Work Location(s) / Lieu(x) de tr	avail :	333 North River Capital Region.	Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA location	in the National			
PART 2 (completed by the Contractor			(complété p	ar le Contracteur et/où le Respon	sable technique / Chargé du projet)				
A. Contractor Resource(s) Note: once approved, only the following resource			ouvée, seules l	es ressources suivantes peuvent l	fournir des services sous la présente AT.				
Name / Nom Category / Catégorie Level / Niveau Profile linguistique de sécurité PWGSC Security File No. / Nº du dossier de sécurité TPSGC									
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - Matching algorithm development  Secret  + Secret									
B. Estimated Cost / Coût estimatif									

de la personne autorisée à signer au nom de l'entrepreneur



### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty pME (probabilistic Matching Engine) - Matching algorithm development	3			\$228,000.00
		E	stimated Cost / Coût estimatif	\$228,000.00
Total	Estimated Trav	vel and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	\$29,640.00			
	\$257,640.00			
1		·		~~~~

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPR	ROBATION DE L'AT PAR LE CAN	INDA
By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé e atteste(nt) que le contenu de cette AT est conforme	
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lo (incluant la TPS/TVH) dépasse cette limite, l'AT doit é l'autorité contractante de TPSGC pour autorisation.	
Name of Authorized Client / Nom du client autorisé Date	Name of Contracting Authority / Nom de l'autorité contractante	Date

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGN	ATURE DU CONTRACTEUR	
MARK COLDHAM Mall		08/31/2013
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre	Signature	Date

Signature

Page 4000387

Travaux publics et Services gouvernementaux Canada

## **TASK AUTHORIZATION FORM**

### FORMULAIRE D'AUTORISATION DE TÂCHES A STATE OF THE STA

A. General Information / Informations g	<u>énérales</u>						
Contract Number / Numéro du contrat : 4706	0-152116/002/EL						
Contractor Name / Nom du Contracteur : Donn	a Conna Inc.	***					
Task Authorization (TA) No. / N° Commitme de l'autorisation de tâches (AT) : l'engagem	ent No. / Nº de ent :	Financial Coding / Code financier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :			
2018001614 100033730	1000337306 192040060/2001/16100 Feb 8, 2019						
B. For Amendments Only / Aux fins de m	odification seu	llement					
Amendment No. / Nº de la modification : 3							
Reason for the Amendment / Raison pour la mo	odification :						
Extend the date to February 23, 2020 with	days additional le	vel of effort	**************************************				
C. TA Requirements / Exigences relative:	<u>à l'AT</u>						
lequired Resource(s) / Ressource(s) requise(s)							
Category / Catégorie	Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (Jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis			
Programmer / Software Developer - Speciality PME (probabilistic Matching Engine) Matchin algorithm development			English / Anglais	Secret -			
Statement of Work (tasks, deliverables, reports,	etc.) / Énoncé de:	s travaux (táches, livrables	s, rapports, etc.)				
Background							
The Canada Border Services Agency (CBSA) is u Border modernization efforts. The Information, capital projects and the associated information drive business transformation efforts and align	Science and Tech technology solut	nology Branch (ISTB) sup ions. Traditional IT functio	port these efforts with over ons have been augmented	rsight and alignment of major with program directorates that			
To advance the planning, development and im the management of its portfolio of systems, pro			on agenda, ISTB is impleme	enting an enterprise approach to			
In support of the above, the Common Services place an Enterprise Building Blocks that can be of the Entry/Exit project is dependent on succe	leveraged by oth	er initiatives including the	Entry/Exit (E/E), BioMetric				
Tasks and Deliverables				2 			
The Contractor must provide the professional s to be followed by a final product incorporating dentify the resources and the respective level of	comments of the	CSPD project manager (c	or their delegates). It is the (	Contractor's responsibility to			
Tasks				<b>%</b>			
The resource will provide CBSA with technical e	xpertise and quid	lance on the following to	pics:				

Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required

- Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an Iterative basis. Each iteration is to be reviewed with
  the Project Authority and subject to their approval;
- Review matching result with business team;
- Support MDM initial load and Incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Update High Level Design document for PME rules, duplicate suspect processing and data survivorship rules as required;
- Provide Application code, including customizations based on SUCs and iterative tuning rules ongoing until the end of the contract;
- Configure PME based on iterative tuning requirements, Quarterly until the end of the contract.
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing until the
  end of the contract;
- Perform knowledge transfer to CBSA application support team. Ongoing until the end of the contract;

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in

the National Capital Region. The	re is no travel	requiren	ent under this I	ask Auth	orization	1.				
Client Support										
The contractor will be provided y required. CBSA will provide each	with a CBSA u resource wit	iser ID, pa h a buildi	ssword, worksta ng access pass, r	ition and e network a	e-mail account v	ddress and otl when working	ner materials (su In CBSA premis	pporting d es.	ocumentation) a	s
Period of Services / Période de :	service:			***************************************			****	***************************************		
Initial Start Date / Date de début initiale : Jan 8, 2018 Initial End Date / Date de fin initiale :								Ар	r 30, 2018	•
Extented End Date (See Reason fo	or the Amend	ment)/D	ate de fin prolor	ngée (volr	r Raison	pour la modifi	cation) :	Fel	23, 2020	***************************************
Option To Extend Initial End D	Date / Option	pour prol	onger la date de	e fin initia	le					
Travel Requirement(s) / Exigence(	(s) de voyage	:	N/A					•		
Work Location(s) / Lieu(x) de trava	ail:		333 N. River Ro	ad, Ottaw	a, ON Ki	IA OL8 or älter	nate CBSA locat	lon in the N	NRC	
	772 <b>39</b> 00	); <u>4</u> 9[4]3(6)	/PARTIE	siashia)	dosciádií!	Sign section in the	· Signate and sign			
		300 74.74		C Sparrylopha y	en coeps	Par Musikaspu	mitte lectrique / Charg	é du projet)		
A. Contractor Resource(s) / R Nute: uncw approved, only the following rejources	essource(s may provide jervic	es under this T	<u>tracteur</u> A. / Nota : una fois appri	ánksá rénjer j	les ressource	es survantes peuvent	fijornit des services sou:	s la presente A1.		
Name / Nom	Cateo	gory / Cate			istic Profile / linguistique			PWGSC Security File No. / Nº du dossier de sécurité TPSGC	7	
	Speciality i Natching Engi	in PME (pi	e Developer - robabilistic hing algorithm  3 English / Anglais Secret							
B. Estimated Cost / Coût estin	matif								1	
Category / Catégorie		Level / Niveau		m Rate / T urnalier	[aux	(days) / Ni	Level of Effort veau d'effort rtif (jours)	Total Cos estimatif		
+ Programmer / Software Devel eciality in PME (probabilistic N gine) Matching algorithm deve	Matching	3					\$4	18,000.00		
Estimated Cost / Coût estimati							\$418,000.00		1	
Total Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie								e \$0.00		
Taxe % applied / % de taxes appliquées 13.000 Applicable Taxes / Taxes applicables								\$!	54,340.00	
Total Estimated Cost / Coût total estimatif								\$4	72,340.00	
		24.50000	rtie 3 - api	اد و شانان الد	A112/11/2		35.5			<u></u>

flavaux publics et Services geuvernementaux Canada

### TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certifyies) that the content of this TA is in accordance with the conditions of the Contract.

The client's authorization limit is \$300,000.000. When the value of a TA and its amendments (sincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.

Towi DAKOU 75-Name of Authorized Client. Nom du client autorisé

Signature

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

La limite d'autorisation du client est 5300,000.00 . Lorsque la valeur de l'AT et ses modifications (Incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.

Silvana Mansour for Julie Villeneuve

Name of Contracting Authority / Nom de

Digitally signed by Mansour, Silvana -Date: 2019.02.06 13:11:00 -05'00'

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

NATE IC COLDIHAM ACCOUNT CYFC

Name and Title of Individual authorized to sign on behalf of the Contractor / Nomet titre de la personne autorisée a signer au nom de l'entrepreneur

Travaux publics et Government Services Services gouvernementaux Canada Canada

### **TASK AUTHORIZATION FORM** FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Chargé du projet)

A. General Information / Informations générales									
Contract Number / Numéro du cont	trat : 47060-152	116/002/EL							
Contractor Name / Nom du Contracteur : Donna Conna Inc.									
Task Authorization (TA) No. / № de l'autorisation de tâches (AT) :					Response required by / Réponse requise par :				
2018001614	1000337306		192040060/2001/16100		January 03, 2018		January 05, 2018		
B. For Amendments Only / Au	x fins de modifi	ication seul	ement .						
Amendment No. / № de la modifica	tion:								
Reason for the Amendment / Raiso	n pour la modifica	ation :							
C. TA Requirements / Exigence	es relatives à l'A	I							
Required Resource(s) / Ressource(s)	requise(s)								
Category / Catégori	e	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Ling	uistic Profile / Profile linguistique		red Level(s) of Security / u(x) de sécurité requis		
Programmer/Software Developer - (probabilistic MatchIng Engine algorithm development		3		6	English / Anglais	Secret		  - 	
Statement of Work (tasks, deliverab	oles, reports, etc.)	/ Énoncé des	travaux (tâches, livrables	s, rapp	oorts, etc.)				
Programmer/Software Developer - Background	Specialty in PME	(Probabilistic	Matching Engine) - Matc	ching a	algorithm developme	ent			
The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.									
To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.								0	
In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.									
Tasks and Deliverables									
The Contractor must provide the pi to be followed by a final product in identify the resources and the respo	corporating comr	ments of the	ISPD project manager (o	r their	r delegates). It is the C	Contrac	tor's responsibility to	nat,	

#### Tasks

The resource will provide CBSA with technical expertise and guidance on the following topics:

- Perform analysis of Business User Cases (BUC) and System User Cases (SUC) and create new SUCs as required
- Review of MDM detail design document in order to confirm or identify implementation approach;
- Lead business requirement gathering on party matching scenarios;
- Document the processes and steps needed to build, administer and support all tests, in development and production environments.
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Assist in the design and implementation of IBM MDM server business rule configurations including PME matching rules, duplicate suspect processing rules, data survivorship rules, business validation rules;
- Customize and fine tune MDM PME matching algorithms based on business requirements on an iterative basis. Each iteration is to be reviewed with the Project Authority and subject to their approval;
- · Review matching result with business team;
- Support MDM initial load and incremental, iterative MDM process;
- Provide MDM PME matching algorithm with CBSA data source to MDM data mapping document;
- Develop High level design Document based on SUCs and iterative PMT truing rules in accordance with CBSA SLMF.

#### Deliverables

- Provide System Use Cases, system requirements for PME due August 31, 2017;
- Provide detailed design documents for all customized code and configurations for IBM InfoSphere MDM server related solution components due October 31, 2017;
- · Provide High Level Design document for PME rules, duplicate suspect processing and data survivorship rules due August 31, 2017;
- Provide Application code, including customizations based on SUCs and iterative tuning rules Due October 31, 2017;
- Configure PME based on iterative tuning requirements. Ongoing to March 31, 2018;
- Provide guidance and assistance in performance tuning, load balancing and optimization strategies for MDM Server environment. Ongoing to March 31, 2018
- Perform knowledge transfer to CBSA application support team. Until end of the TA.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the

Travaux publics et Services gouvernementaux Canada

attention of the Project Authoritemplate.	ority. The status rep	orts must also be supp	orted by a	monthly detailed tim	e sheet mapped to deliver	ables, using stand	ard	
Location of Work								
The work is expected to be pe the National Capital Region. T					orio, K1A OL8 or an alternati	ive CBSA location	in	
Client Support								
The contractor will be provide required. CBSA will provide ea						ocumentation) as		
Period of Services / Période	de service:							
Initial Start Date / Date de déb	out initiale :	January 08, 2018	Initia	ıl End Date / Date de f	in initiale : Apr	ril 30, 2018		
Extented End Date (See Reaso	n for the Amendme	nt) / Date de fin prolor	ngée (volr	Raison pour la modific	cation):			
Option To Extend Initial Er	nd Date / Option po	ur prolonger la date de	fin initial	e				
Travel Requirement(s) / Exiger	nce(s) de voyage :	NO						
Work Location(s) / Lieu(x) de t	ravail :	333 North Rive Capital Region	r Road, Ot	tawa, Ontario K1A 0L8	or alternate CBSA location	in the National		
PART 2 (completed by the Contracto	rand/or the Yechnical/Projec	Authority) / PARTIE 2	(complété pa	ir le Contracteur evolu le Respon	sable technique/ Charge du projet)			
A. Contractor Resource(s) Note: ance approved, only the fallowing reso			ouvée, seules l	es ressources sulvantes peuvent	fournir des services sous la présente AT.	×		
Name / Nom Category / Catégorie Level / Niveau Profile linguistique Level of Security / Niveau dossier de sécurité Profile linguistique								
Programmer/Software Developer - Specialty in pME (probabilistic Matching Engine) - 3 English / Anglais Secret  Matching algorithm development								
B. Estimated Cost / Coût e	<u>stimatif</u>							

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority

The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments

certify(ies) that the content of this TA is in accordance with the conditions of the Contract.

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Category / Catégorie Leve Niver	1	r Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
ner/Software Developer - Specialty in pME istic Matching Engine) - Matching algorithm development				\$152,000.00
		E.	stimated Cost / Coût estimatif	\$152,000.00
Total Estimate	d Travel and	Living Cost / Coût total	l estimatif de voyage et de vie	\$0.00
% applied / % de taxes appliquées 13.00	00	Applica	able Taxes / Taxes applicables	[*] \$19,760.00
		Total Estima	ted Cost / Coût total estimatif	\$171,760.00

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

***************************************
W. W. W.
-

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC

La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications

atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.

A. Contractor Resource(s) / Ressource(s) du Contracteur

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority	/ PARTI	<b>E 1</b> (complété par l	le Responsable technique / Chargé	du projet)				
A. General Information / Informatio	ons généra	ales						
Contract Number / Numéro du contrat : 47060-152116/002/EL								
Contractor Name / Nom du Contracteur : DONNA CONA INC.								
* *	mitment No pagement :		nancial Coding / Code nancier :	Date of Issuance / Date of Issua	ate Response required by / Réponse requise par :			
2019002714	346181	19	92040060/6001/10400	Aug 31, 2020	Sep 11, 2020			
B. For Amendments Only / Aux fins	de modifi	cation seule	ment					
Amendment No. / Nº de la modification :	4							
Reason for the Amendment / Raison pou		ntion :						
Amendment #4 : PO:2019002714/REQ : 1			ment REQ : 100032211	6 is raised for the following				
	al estimated		as more effort is require	ed. No changes in the state				
- increase total cost from		(Ап аррпсаые	e taxes extra).					
C. TA Requirements / Exigences rela	atives à l'A	<u>AT</u>						
Required Resource(s) / Ressource(s) requi	se(s)							
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis			
Application/Software Architect - Special Master Data Management (MDM) S		3		English / Anglais	+			
Statement of Work (tasks, deliverables, re	eports, etc.) ,	Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)				
See Attached Annex A - Statement of Wo	rk							
Period of Services / Période de service:								
Initial Start Date / Date de début initiale :	Feb	23, 2020	Initial End Da	te / Date de fin initiale :	Feb 23, 2021			
Extented End Date (See Reason for the Ar	Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :							
Option To Extend Initial End Date / Op	otion pour p	rolonger la dat	te de fin initiale					
Travel Requirement(s) / Exigence(s) de vo	yage :	N/A						
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region								
PART 2 (completed by the Contractor and/or the Tech		/ <b>DADT</b>	IF D	v In III				

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / N° du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais			-

. Estimated Cost / Coût estimatif			_	
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
Ilication/Software Architect - Specialty in     Master Data Management (MDM) Server	3			\$720,000.00
		E	stimated Cost / Coût estimatif	\$720,000.00
Total E	estimated Trav	el and Living Cost / Coût tota	ll estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	\$93,600.00		
		Total Estima	ated Cost / Coût total estimatif	\$813,600.00

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.				
The client's authorization limit is \$300,000.00 . When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Lor (incluant la TPS/TVH) dépasse cette limite, l'AT doit êt l'autorité contractante de TPSGC pour autorisation.	•			
Name of Authorized Client / Nom du client autorisé  Date  Digitally signed by DAROUZE  TONI  Date: 2020.09.24 11:39:16 -04'00'  Signature	Name of Contracting Authority / Nom de l'autorité contractante Michaud, Daniel Daniel Signature	Date			

### PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham	Account Executive	DocuSigned by:	2020-09-24
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur		Signatus 4C5A97F0424	Date



Travaux publics et Services gouvernementaux Canada

PART 1 (completed by the Technical/Project /	Nuthority) / PART	<b>IE 1</b> (complété p	oar le Responsable technique / Charge	ê du projet)				
A. General Information / Infor	mations génér	ales			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Contract Number / Numéro du con	trat : 47060-152	2116/001/EL						
Contractor Name / Nom du Contrac	teur : IBM Canac	la Limited/IBI	M Canada Limitée					
Task Authorization (TA) No. / No de l'autorisation de tâches (AT) :								
2019001492	1000342264		1950 500 <b>2</b> 0/C00045-21	17/09/2018	17/09/2018			
B. For Amendments Only / Au	x fins de modif	ication seu	lement					
Amendment No. / N° de la modifica	tion :							
Reason for the Amendment / Raiso	n pour la modific	ation :						
C. TA Requirements / Exigence	es relatives à l'A	AT						
Required Resource(s) / Ressource(s)	requise(s)							
Category / Catégori	e	Level / Nive	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis			
Test Coordinator - Specialty in Test one or many of the following Prod IBM IIS DataStage and QualityStage ESB, IBM GNM, IBM ODM Standard	lucts: IBM MDM, , IBM ISII, IBM IIB-	3		English / Anglais	Secret			
Statement of Work (tasks, deliverat	oles, reports, etc.)	/ Énoncé des	travaux (tâches, livrables	s, rapports, etc.)				
Number of resources: One (1) Test BPM  Title: Test Coordinator - Level 3 – S QualityStage, IBM ISII, IBM IIB-ESB, I Background	pecialty in Test co	oordination c	of one or many of the follo					
CBSA requires a test coordinator to activities in cooperation with the b Management Project.								
The Canada Border Services Agenc and goods across the border. The a front-line workers, and from multip respond to a rapidly changing ope governance and infrastructure requenterprise MDM service will provid ensure Agency information in multi Agency's information assets across	availability of high ole viewpoints, to rating environme uired to establish le a reliable, timel tiple repositories	n-quality, auth foster inform int. Master Da an authorita y and comple is identified, a	noritative information is oned decision making and at Management (MDM) is tive data source for the A lete (360 degree) authorities.	critical at all levels of the or advance the Agency's inte includes the principles, stai gency's people and busine ative view of the Agency's	ganization, from executives to Iligence and analytical capacity to ndards, processes, tools, ess identities. Implementation of ar key business master data. MDM wi			
CBSA will be delivering the founda	tion Enterprise M	DM capabilit	y in three releases; R458,	R448 and R409 and the En	try Exit Project release R553.			



Travaux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

The scope of MDM Release 458 is to setup and prepare infrastructure for release 448 and onboard eManifest MDM to enterprise MDM:

- Acquire and setup enterprise MDM hardware to fulfil commercial and travellers enterprise requirements
- Install and configure new software for MDM service using MDM Advanced Server v. 11.6, DB2 Server Advanced with PureScale
- Data Stewardship Centre (DSC) deployed on IBM BPM platform should be installed and configured without any customization.
- · Use production-like R&D environment to test performance of MDM Solution to search and maintain master records using production-sized data set.

The goal of this exercise is to validate that MDM infrastructure will support enterprise performance requirements

- · Migrate eManifest MDM to the new hardware and software
- eManifest MDM database need to be transferred to the new infrastructure with minimum downtime for eManifest applications
- Test eManifest applications to make sure MDM functionality is not broken

The scope of MDM Releases 448 and 409 are driven by the following features in support of Entry/Exit Reconciliation and Identity Resolution requirements:

- Design and develop services to resolve and search person biographical data in MDM, received from entry records (PH), exit records (EXIS) and immigration documents (IBAS)
- Ingest individual identities from immigration documents in IBAS
- Configure MDM to use probabilistic (fuzzy) and deterministic (exact) search engines to search a person to fulfil IRCC entity search requirements
- Setup MDM notification framework (pub/sub) to notify subscribers about master data changes
- Setup Data Stewardship Center (DSC) application to support data steward activities. Delivery of DSC will be pushed to the following release 409 if development team will not be able to develop this function in the timeline of release 448.
- Tune and optimize performance of MDM services to support Traveller and Commercial programs
- Design and develop a service to support standardized data preparation and cleaning to support master data ingestion processes
- Use production-like R&D environment to test performance of MDM Solution to search and maintain master records using production-sized data set.
- The goal of this exercise is to validate that MDM infrastructure will support enterprise performance requirements
- Setup centralized Data Preparation and Loading Service (DPLS). Underlying components should be available in operational high availability mode
- Set up and provide ongoing data governance and stewardship for Traveller's Master Data sourced from EXIS, PH and IBAS
- Design and develop new centralized Data Sharing Tracking Service (DSTS)

The MDM scope of Entry Exit Release R553 includes:

- MDM will manage Travel Status rules internal to the MDM application.
- MDM will calculate the Travel Status based on the information contained in the master record.
- Modify MDM Change Notification function to improve the ability for consumers to identify what was changed in MDM,

#### Objective

To acquire professional services for one Test Coordinator Level 3 to perform the tasks and deliverables below.

#### Tasks

Expertise (ongoing)

- · Provide expertise in all aspects of testing applications developed with the following IBM products: IBM BPM, MDM, and IIS;
- Provide advice, guidance for the development of a test strategy, test plans, test scenarios, test cases, unit tests including recommendations for the selection of automated testing tools, and identification of test environment and resources required for testing

Planning activities (October 2018)

- Gain an understanding of the high level functional design documents including the various interactions and interfaces between the aggregated parts of the integrated solution.
- · Establish in cooperation with the business a clear set of success criteria from both a technical and a business perspective.
- Put in place a working group dedicated to the MDM testing.
- Identify the potential High Level Work Packages in which Test Cases could be grouped.
- · Build a schedule that includes test planning, execution, control, and configuration management activities.
- Determine the amount of effort and resources associated to its implementation.
- Meet with the key stakeholders.
- Gather information regarding the current Test Environment in order to properly assess what might be missing.
- Identify the gaps across projects in terms of the standards, processes and procedures.
- Identify the various risks related and their associated mitigation measures.

Execution activities (November - March 2019)

- Coordinate the execution of the plan with the required stakeholders.
- Develop, prepare and deliver the following documentation: Test Strategy, Test Plan, Test Cases, Test Scripts (including the ones to be automated for regression testing).
- Identify the Test Cases that are eligible for automation in the context of future functional testing activities (regression).
- Ensure that Test scripts are properly documented, adhere to the Agency's standards, work as specified, and stored.

Page 2 of 5



Traveux publics et Services gouvernementaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Participate actively and contribute significantly in the elaboration of End to End User Acceptance Test (UAT) Plans

- Follow CBSA Testing standards, processes and tools in order to:
- o Track and monitor bugs and defects.
- o Manage both Problem Reports and Change requests.
- o Maintain and report on problems through a problem log.
- o Ensure common pieces of test scripts in a common repository.
- o Ensure the consistency of the various templates, release notations and release packages.
- Gather and report on Test Results and perform an evaluation against a set of predefined Test Success Criteria.

Monitoring and control activities (November to March 2019)

- Report on risks that have been identified as part of the testing activities and apply mitigation measures when the risk occurs. Ensure this is reflected in the plan.
- Report on the progress of all tests being conducted.
- Report on issues or concerns and address them when possible or escalate them to the MDM Service Manager.
- Schedule weekly meeting with the working group as well as the SMEs.

#### Closure Activities April 2019)

- Provide a final report on all tests that were conducted.
- Perform a post-mortem incorporating lessons learned.

#### Deliverables

The Contractor shall deliver the following:

- MDM and Data Stewardship Test Strategy including a clear set of success criteria from both a technical and a business perspective.
- Consolidated documentation of test scenarios and test cases
- Functional Test Plans by release for Master Data Management Service including Data Stewardship
- User Acceptance Test (UAT) Plans by release for Master Data Management Service including Data Stewardship
- Test schedules for functional and user acceptance test plans
- Functional and User Acceptance Test reports, test logs, test traceability matrix
- Test Environment Gap Analysis Report
- Risk Report Log testing related risks and their associated mitigation measures.

### Further, please note the following:

- All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint), and HP Quality Center in English.
- All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.
- All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

#### Technical Environment

As defined in the Annex A - SOW - Section 12 of the contract number 47060-152116/0011/EL for the acquisition of Professional Services for SOAPS-MDMS-ERASS.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### Reporting Requirements

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

Location of Work The work is expected to be pe the National Capital Region. The Client Support The contractor will be provide required. CBSA will provide ea	nere is no trave d with a CBSA	el requirement under this Ta user ID, password, workstal	ask Autho tion and e	rization. -mail address and oth	er materials (supporting do		in	
Period of Services / Période of	le service:							
Initial Start Date / Date de débi	ut initiale :	01/10/2018	Initia	al End Date / Date de f	în initiale : 30/	04/2019		
Extented End Date (See Reason  Option To Extend Initial En					cation):			
Travel Requirement(s) / Exigen	ce(s) de voyag	e: N/A						
Work Location(s) / Lieu(x) de travail : 333 North Rive				liver Road, Ottawa, Ontario K1A 0L8				
PART 2 (completed by the Contractor  A. Contractor Resource(s)  Note: once approved, only the following resource.	/ Ressource(	s) du Contracteur						
Name / Nom	Cate	egory / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	Test Coordinator - Specialty in Test coordination of one or many of the following Products: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced		3	English / Anglais	Secret	92021872-0001 532656	-	

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Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ Test Coordinator - Specialty in Test dination of one or many of the following ducts: IBM MDM, IBM IIS DataStage and QualityStage, IBM ISII, IBM IIB-ESB, IBM GNM, IBM ODM Standard and Advanced	3			\$148,800.00
		£	Estimated Cost / Coût estimatif	\$148,800.00
Total E	stimated Tra	vel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	cable Taxes / Taxes applicables	\$19,344.00
		Total Estim	ated Cost / Coût total estimatif	\$168,144.00

PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROE	BATION DE L'AT PAR LE CANADA
	apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC este(nt) que le contenu de cette AT est conforme aux conditions du contrat.
(including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and (inc	limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modificatio cluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transr utorité contractante de TPSGC pour autorisation.
	me of Contracting Authority / Nom de Date utorité contractante
Signature Sig	nature



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# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

Completed by the Technical/Project Authority) / FAI	(complete par le Respons	able technique / Charge du projet			
A. General Information / Informations o	<u>jénérales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>)</b> .			
Task Authorization (TA) No. № de l'autorisation de tâches (AT) :	Commitment No. Nº de l'engagement :	Financial Code finan	-	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
2019002451	1000339847	1920400060/60	001/10400	Jan 18, 2020	29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulem	<u>ent</u>			
Amendment No. / N° de la modification :	3				
Reason for the Amendment / Raison pour la m	odification :				
Amendment #2 is raised for the following:  1) Extend end date from February 23, 202  2) - Add -	20 to February 23, 202 days Total ; days Total;	ble taxes extra).			
C. TA Requirements / Exigences relative	res à l'AT				
Required Resource(s) / Ressource(s) requise(s	s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	-	c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Programmer/Software Developer - Special Information Server (IIS) Datastage a Level 3			Englis	sh / Anglais	
Programmer/Software Developer - Spe Data Management (MDM) - Java Level 3			Englis	sh / Anglais	
	,				
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	aux (tâches, livrable	s, rapports, et	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	24-Jan-2019	Init	ial End Date	Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	n pour prolonger la date	de fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	atus / Statut	
Х			O In E	ffect / en vigueur	

Travel Requirement(s) / Exigence(s) de voyago	n/a
Work Location(s) / Liqu(s) do travail :	333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location
Work Location(s) / Lieu(x) de travail :	in the National Capital Region

## PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services und					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer/Software developer - Specialty in IBM Infosphere Information Server (IIS) Datastage and Quality Stage		English/Anglais			
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development		English/Anglais			
			Estimated	Cost / Coût estimatif	\$1,683,950.00
Т	otal Estimated Travel an	d Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes /	Taxes applica	bles	\$218,913.50
		Total Esti	mated Cost /	Coût total estimatif	\$1,902,863.50
Check applicable Basis of Pa Cocher la Base de Paiement ap	=	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	

### PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de h TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contra				
The client's authorization limit is \$150,000. When the value of a TA and its amendments (excluding Applicable Taxes) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est 150,000 \$. Lorsque la valeur de modifications (excluant les taxes applicables) dépasse cette limite, l'AT doit être s autorisé et transmise à l'autorité contractante de TPSGC pour autorité de TPSGC pour autorité contractante de TPSGC pour autorité de TPSGC pour autor	signée par le client			
Name of Technical Authority / Nom de l'autorité techn Date  DAROUZE Digitally signed by DAROUZE TONI Date: 2020.03.26 14:59:54 -04'00'	Name of Contracting Authority / Nom de l'autorité contractante  Michaud, Daniel Daniel  Daniel  Daniel Davis Os Ou = PWSSC- TFSC Date: 2020.03.27 09:12-41-0400	_			
Signature	Signature				

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

Mark Coldham  Account Executive	DocuSigned by:	2020-03-27
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre Signature de la personne autorisée à signer au nom de l'entrepreneur	<b>Signat</b> मि884C5A97F0424	Date



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PAKI 1 (completed by the Technical/Project Auth	nority) / PAKII	Complété par	le Responsable technique / Chargé	du projet)			
A. General Information / Inform	ations généra	ales					
Contract Number / Numéro du contra	t: 47060-152	116/002/EL					
Contractor Name / Nom du Contracte	ur : Donna Cor	nna Inc.					
• • •	Commitment No 'engagement :		nancial Coding / Code nancier :	Date of Issuance / D d'émission :		esponse required by éponse requise par :	/
2019002451	1000339847	19	92040060-6001-34210	February 11, 2019	Fe	ebruary 15, 2019	
B. For Amendments Only / Aux f	ins de modific	cation seule:	ment_				
Amendment No. / Nº de la modificatio	on: 1						
Reason for the Amendment / Raison	pour la modifica	ation :					
Amendment #1 is raised for the followal) Extend end date from February 23, 2) Add data data data data data data data	2019 to Februa lys total estimat days total esti	ed level of effo mated level of		tware Developer IIS; /Software Developer IIS;			
C. TA Requirements / Exigences	relatives à l'A	I					
Required Resource(s) / Ressource(s) re	quise(s)						
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile/Profile linguistique	, .	Level(s) of Security / de sécurité requis	
Programmer/Software Developer - Sp InfoSphere Information Server (IIS) D QualityStage		3		English / Anglais	Secret		
Programmer/Software Developer - Sp Master Data Management (MDN development		3	(40.00 to 10.00 to 10	English / Anglais	Secret		**
Statement of Work (tasks, deliverables	s, reports, etc.) /	/ Énoncé des tra	avaux (tâches, livrables,	rapports, etc.)			
See Attached Annex A - Statement of	Work.						
Period of Services / Période de servi	ce:						
Initial Start Date / Date de début initial	e: Jan	24, 2019	Initial End Dat	te / Date de fin initiale :	E	Feb 23, 2019	
Extented End Date (See Reason for the	· Amendment) /	Date de fin pr	olongée (voir Raison po	our la modification) :	E	Feb 23, 2020	
Option To Extend Initial End Date	Option pour p	rolonger la dat	e de fin initiale				
Travel Requirement(s) / Exigence(s) de	voyage :	No travel re	equirement under this	Task Authorization.			
Work Location(s) / Lieu(x) de travail :		333 North f	River Road, Ottawa, On	tario K1A OL8 or an alternat	ive CBSA l	ocation in the NCR.	

Public Works and Government Services Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 2 (completed by the Contractor and/or the Technical/Project Authority) / PARTIE 2 (complété par le Contracteur et/ou le Responsable technique / Chargé du projet)

ince approved, only the following	resources may provide services under this TA. / Nota: une fols appro	uvée, seules le	es ressources suivantes peuvent f	ournir des services sous la présente AT.	
Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	223938-1
F	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	219052-2

B. Estimated Cost/Coûtestimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ grammer/Software Developer - Specialty - IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$136,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$825,550.00
	\$961,550.00			
Total E	\$0.00			
Taxe % applied / % de taxes appliquées	13.000 Applicable Taxes / Taxes applicables			\$125,001.50
•		Total Estima	ated Cost / Coût total estimatif	\$1,086,551.50

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

		r the PWGSC Contracting Authority with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé o atteste(nt) que le contenu de cette AT est conforme	
(including GST/HST) is In		ne value of a TA and its amendments it be signed by the authorized client and iorization.	La limite d'autorisation du client est \$300,000.00 . L (incluant la TPS/TVH) dépasse cette limite, l'AT doit d'autorité contractante de TPSGC pour autorisation.	
Name of Authorized Cli PENWARDEN	ent / Nom du client autorisé  Digitally signed by FERWARDEN ROBERT DN: CERS, 0-9G, 00-96278-9695.	Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
ROBERT Signature	Unit crta, origit, our water-some, or constitution of the constitu		Signature Villeneuve, Julie	Digitally signed by Villeneuve, Julie 3 Date: 2019.02.13 15:31:11 -05'00'

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

MARK COLOHAM	Mal	feb 12, 20, 9
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

REQ#: 100033987-2019002451

# STATEMENT OF WORK ANNEX A

#### Title

Canada Border Services Agency requires one (1) Programmer / Software Developer – Level 3 – Specialty in IBM Master Data Management (MDM) – MDM Software Developer (for support)

and

one (1) Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage (for support)

## **Background**

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### **Objective**

To acquire professional services for one MDM Software Developer to perform second line of support for CBSA MDM production deployment.

#### Tasks and Deliverables

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

### **Tasks**

Provide CBSA with technical expertise and guidance on the following topics:

REQ#: 100033987-2019002451

- Review MDM production logs to troubleshoot a potential issue. The issue could be related to MDM core, CBSA extension code, DataStage/QualityStage, BPM with MDM Data Stewardship Center, database, MQ, networking
- Recreate an issue in production support environment if possible
- Find a solution for the issue. Fix and test solution in production support environment
- Support moving fixed code to production environment
- Communicate progress along the way

### **Deliverables**

The Contractor shall provide the following:

- Reports on troubleshooting of production issues (monthly by March 30, 2020);
- Fixed code or configuration (as required by March 30, 2020);
- Document code or configuration changes required for the fix. Documentation should include recommendations for future development to prevent similar issues;
- Knowledge transfer by March 30, 2020;

### Skills required

- Extensive experience of developing, troubleshooting and supporting MDM services including DataStage/QualityStage, Data Stewardship Center
- Good communication skills, both verbal and written
- Strong problem-solving skills

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

### **Technical Environment**

As defined in Section 12 of the contract number 47060-152116/002/EL.

### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or line (e.g. VPN) be permitted. The contractor must

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comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

Support contractor will be able to use CBSA device to perform remote work using CBSA VPN. This device cannot be carried outside of Canada.

Working hours for MDM support has to be 24 hours a day, 7 days a week. Maximum response time for call back should be 15 minutes.

### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

### Reporting Requirements

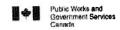
If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### **Location of Work**

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization. Remote work will be allowed using CBSA devices.

## **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.



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A. General Information / Informations généra	les				
Contract Number / Numéro du contrat : 47060-1521	16/002/EL				_
Contractor Name / Nom du Contracteur : Donna Cont	na Inc.		·		
Task Authorization (TA) No. / № Commitment No		ancial Coding / Code	Date of Issuance / Dad	te Response required by /	
de l'autorisation de tâches (AT) : l'engagement : 2019002451 l'1000339847		ancier : 2040060/6001/34210	Aug 13, 2019	Aug 20, 2019	
2017002431					=======================================
B. For Amendments Only / Aux fins de modifi	cation seulei	nent			-1
Amendment No. / № de la modification : 2					
Reason for the Amendment / Raison pour la modifica			the level of effort by	ays to the IBM	
This amendment is being raised to increase the TA by Programmer/Software Developer -Specialty InfoSphe	re Information	Server (IIS) DataStage	and QualityStage resource.		]
C TAD	_				
C. TA Requirements / Exigences relatives à l'A Required Resource(s) / Ressource(s) requise(s)					
Required Resource(s) / Ressource(s) requise(s)		Estimated Level of			1
Category / Catégorie	Level / Niveau	Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis	
IBM					
Programmer/Software Developer -Specialty InfoSphere Information Server (IIS) DataStage and QualityStage	3		English / Anglais	Secret	
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	° 3		English / Anglais	Secret	
Statement of Work (tasks, deliverables, reports, etc.)	/ Énoncé des t	ravaux (tâches, livrable:	s, rapports, etc.)		
See attached Statement of Work.					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	ar 5, 2018	Initial End Da	ate / Date de fin initiale :	Feb 23, 2020	
Extented End Date (See Reason for the Amendment)	/ Date de fin p	orolongée (voir Raison p	oour la modification):		
Option To Extend Initial End Date / Option pour	prolonger la da	ate de fin initiale			
Travel Requirement(s) / Exigence(s) de voyage :	N/A				
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa Or	ntario Ki A OL8		

Page 1 of 3

Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	223938-1
R	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3	English / Anglais	Secret	219052-2

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ IBM  grammer/Software Developer - Specialty InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$187,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java Development	3			\$825,550.00
		Es	stimated Cost / Coût estimatif	\$1,012,550.00
Total E	stimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applica	ble Taxes / Taxes applicables	\$131,631.50
		Total Estimat	ed Cost / Coût total estimatif	\$1,144,181.50

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(les) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/ atteste(nt) que le contenu de cette AT est conforme à	ou l'autorité contractante de TPSGC ux conditions du contrat.
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments finctuding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.  While the contraction of the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$1,200,000.0 cm (incluant la TPS/TVH) dépasse cette limite, l'AT doit êtr l'autorité contractante de TPSGC pour autorisation.	STUD IS A TAT OF TAT OF TAR OF TAR
Name of Authorized Client / Nom du Client autorise Date	Name of Contracting Authority / Nom de Fautorité contractante	Date
	Michaud, Daniel Digitally signed by Michaud, Daniel Date: 2019.08.30 12:24:51-04'00'	
Signature	Signature	



NAME REPORTED TO A STATE OF THE PROPERTY OF TH	
Lair a Worth Account Executive  Mar (Colothorn  Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	119



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A. General Information / Informations gén	<u>érales</u>				***************************************
Contract Number / Numéro du contrat : 47060-1	152116/002/EL				
Contractor Name / Nom du Contracteur : Donna	Conna Inc.				
Task Authorization (TA) No. / N° Commitment de l'autorisation de tâches (AT) : l'engagemen		Financial Coding / Code inancier :	Date of Issuance / D d'émission :	Pate Response required by Réponse requise par	•
2019002451 1000339847		92040060-6001-34210	Jan 21, 2019	Jan 23, 2019	
B. For Amendments Only / Aux fins de mod	dification seul	ement	9	34 St. 1985	
Amendment No. / № de la modification :	2				
Reason for the Amendment / Raison pour la modi	fication :				
	**************************************				
C. TA Requirements / Exigences relatives à	<u>l'at</u>				
Required Resource(s) / Ressource(s) requise(s)			•	<b>1</b>	
Category / Catégorie	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security Niveau(x) de sécurité requis	/
Programmer/Software Developer - Specialty in IBI InfoSphere Information Server (IIS) DataStage and QualityStage	d   3		English / Anglais	Secret	
Programmer/Software Developer - Specialty in IBI Master Data Management (MDM) - Java development	И 3		English / Anglals	Secret	
Statement of Work (tasks, deliverables, reports, et	c.) / Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)		
See attached.					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	an 24, 2019	Initial End Da	te / Date de fin initiale :	Aug 31, 2019	
Extented End Date (See Reason for the Amendmer	nt) / Date de fin p	rolongée (voir Raison p	our la modification) :		
Option To Extend Initial End Date / Option pou	r prolonger la da	te de fin initiale	· ·	***************************************	
Travel Requirement(s) / Exigence(s) de voyage :	No travel r	equirement under this ⁻	Task Authorization.		
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa, On	tario K1A 0L8 or an alternat	tive CBSA location in the NCR.	

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	Programmer/Software Developer - Specialty in IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3	English / Anglais	Secret	223938-1
	Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3	English / Anglais	Secret	219052-2

B. Estimated Cost / Coût estimatif				
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
+ prammer/Software Developer - Specialty IBM InfoSphere Information Server (IIS) DataStage and QualityStage	3			\$34,000.00
Programmer/Software Developer - Specialty in IBM Master Data Management (MDM) - Java development	3			\$256,750.00
		E	stimated Cost / Coût estimatif	\$290,750.00
Total I	Estimated Trav	el and Living Cost / Coût tota	l estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applic	able Taxes / Taxes applicables	\$37,797.50
		Total Estima	ated Cost / Coût total estimatif	\$328,547.50

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROPATION DE L'AT DAD LE CANADA

En apposant sa signature sur l'AT, le client autorisé et/ou l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.
La limite d'autorisation du client est \$300,000.00 . Lorsque la valeur de l'AT et ses modifications (Incluant la TPS/TVH) dépasse cette limite, l'AT doit être signee par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.
Name of Contracting Authority / Nom de Date l'autorité contractante
Villeneuve, Julie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.01.29 15:23:39 -05'00'

PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR



Travaux publics et Services gouvernementaux Canada

MAKK GLAHAM AE	Mr bell	01/29/2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	त्रीgnature	Date /



PART 1 (completed by the Technical Principle Authorities / PARTIE 1 (complete partie from constitution of Change de

A. General Information / Information	<u>itionspénér</u>	iles					
Contract Number / Numéro du contra	47060-157	2116/002/EL				***************************************	
Contractor Name / Nom du Contracte	ur : Donna Co	nna inc.					
	Commitment N 'engagement :	1.5 4.500	Financial Coding / Code financier :	Date of issuance / d'émission :		e required by / erequise par :	j
2019002452	1000339847		192040060-6001-34210	February 11, 2019	February	y 15, 2019	
For Amendments Only / Aux fins	demodifica	tionseulem	ent				
Amendment No. / Nº de la modificatio	<u> </u>						********
Amendment #1 is raised for the follow 1) Extend end date from May 31, 2015 2) Add 3) Increase total cost from \$144,175.00	to February 2: ays total estin to \$474, 000.0	nated level of e 30 (All applicab					
TARequirements/Exigencesr lequired Resource(s) / Ressource(s) rea		<u>.</u>					
Category / Catégorie		Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile/ Profile linguistique	Required Level(s Niveau(x) de séc		
Programmer/Software Developer - Sp Master Data Management (MDN development		3		English / Anglais	Secret		ı
Statement of Work (tasks, deliverables	reports, etc.) /	Énoncé des tra	ıvaux (tāches, livrables, i	apports, etc.)			
See Attached Annex A - Statement of V	Vork.						
Period of Services / Période de servic	e:						*********
nitial Start Date / Date de début initials		24,2019	Initial End Da	te / Date de fin initiale :	Max 31.	.2019	
xtented End Date (See Reason for the	Amendment) /	Date de fin pr	olon <b>g</b> ée (voir Raison por	ur la modification) :	Februar	ry 23, 2020	
Option To Extend Initial End Date /	Option pour p	rolonger la dati	e de fin initiale				
ravel Requirement(s) / Exigence(s) de	voyage (	No travel r	equirement under this 1	Fask Authorization.			
Vork Location(s) / Lieu(x) de travail :		333 North	River Road, Ottawa, Onl	tario K1A OL8 or an alterna	tive COSA location	in the NCA.	
PART 2 (completed by the Contractor and/or the S	adiokal/Project Auto	·····/ PART	IE 2 (complete par le Commune	ar est/our la Ressponssable technologue / Cha	gá 4. projet)		********
A. Contractor Resource(s) / Resso							*******

Page 1 of 2

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Canada Consultation Consultation

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level/ Niveau		Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	<ul> <li>Programmer/Software Developer -         Specialty in IBM Master Data         Management (MDM) - Java         development     </li> </ul>	3	English / Anglais	Secret	1025681	l.

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
3			\$474,000.00
	E	stimated Cost / Coût estimatif	\$474,000.00
Estimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00
13.000	Applica	able Taxes / Taxes applicables	\$61,620.00
d	Total Estima	ted Cost / Coût total estimatif	\$535,620.00
	Niveau 3 Estimated Trav	Niveau journalier  3  Estimated Travel and Living Cost / Coût total  13.000 Applica	Level / Per Diem Rate / Taux (days) / Niveau d'effort estimatif (jours)  3  Estimated Cost / Coût estimatif  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized dient authority and/or certifylies) that the content of this TA is in accordance with		En apposent se signature pur l'AT, le clien atteriei nt) que le contenu de cette AT es	t autorisé et/ou l'autorité contractairée de TPSGC t conforme aux conditions du contrat.
The clean's authorization limit is \$300,000.00 . When the jincluding GST/HST) is in excess of this limit, the TA must forwarded to the PWGSC Contracting Authority for autho	be signed by the authorized client and		,000.80 : Lorsque la valeur de l'AT et ses modifications s, l'AT duit être signée par le client autorisé et transmise à borisation.
Name of Authorized Client / Nom du client autorise	Owe	Name of Contracting Authority / Nom de Pautorité contractante	Date
PENWARDEN ON CONTROL OF THE PROPERTY OF THE PR		Villeneuve, Jul	ie 3 Digitally signed by Villeneuve, Julie 3 Date: 2019.02.14 08:59.05 -05'00'
		***************************************	

## PART 4-CONTRACTOR SIGNATURE / PARTIE 4-SIGNATURE DU CONTRACTEUR

MARK OLOUM	mall	Feb 12, 2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrépreneur	Signature	Oste

Page 2 of 2

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A. General Information / Information	mations génér	<u>ales</u>				*
Contract Number / Numéro du cont	trat : 47060-152	116/002/EL				
Contractor Name / Nom du Contrac	teur : Donna Coi	nna <b>In</b> c.				
Task Authorization (TA) No. / N° de l'autorisation de tâches (AT) :	Commitment No		nancial Coding / Code nancler :	Date of Issuance / D d'émission :		required by /
2019002452	1000339847		92040060-6001-34210	Jan 21, 2019	Jan 23, 20	requise par : )19
B. For Amendments Only / Aux	fins de modif	ication scule	ment			3
			<b></b>			
Amendment No. / Nº de la modifica	tion:					······································
Reason for the Amendment / Raison	n pour la modific	ation :				
						41
C. TA Requirements / Exigence	e rolativos à l'	.T				
Required Resource(s) / Ressource(s)						
		*	Estimated Level of			
Category / Catégorie	2	Level / Niveau	Effort (days) / Niveau	Linguistic Profile / Profile linguistique	Required Level(s) Niveau(x) de sécu	
Programmer/Software Developer - Master Data Management (M development			18:1 N T S	English / Anglais	Secret	<b>双</b>
Statement of Work (tasks, deliverab	les, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)		
See attached.	i.					
L Period of Services / Période de ser	vice:					
Initial Start Date / Date de début Init	iale : Jan	24, 2019	Initial End Da	te / Date de fin initiale :	, May 31,	2019
Extented End Date (See Reason for t	he Amendment)	/ Date de fin pr	olongée (voir Raison p	our la modification) :		
Option To Extend Initial End Dat	e / Option pour p	rolonger la dat	e de fin initiale			
Travel Requirement(s) / Exigence(s)	de voyage :	No travel re	equirement under this	Task Authorization.		
Work Location(s) / Lieu(x) de travail		333 North I	River Road, Ottawa, On	tario K1A 0L8 or an alternat	ive CBSA location	in the NCR.
	n Service Aprilia Com	iii./PART	EZicamonadysa a godineci	o valbuis aidney en ra	ngedi projet)	
A. Contractor Resource(s) / Res	source(s) du C	ontracteur				



Travaux publics at Services gouvernamentaux Canada

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC
	<ul> <li>Programmer/Software Developer - Specialty In IBM Master Data Management (MDM) - Java development</li> </ul>	3	English / Anglais	Secret	1025681

Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif
grammer/Software Developer - Specialty IBM Master Data Management (MDM) - Java development	3			\$144,175.00
		į.	Estimated Cost / Coût estimatif	\$144,175.00
Total E	stimated Trav	el and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00
Taxe % applied / % de taxes appliquées	13.000	Applio	able Taxes / Taxes applicables	\$18,742.75
· · · · · · · · · · · · · · · · · · ·		Total Estima	ated Cost / Coût total estimatif	\$162,917.75

# PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify:ies) that the content of this IA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et atteste(nt) que le contenu de cette AT est conforme a	/ou l'autorité contractante de TPSGC aux conditions du contrat
The client's authorization limit is \$300,000.00. When the value of a TA and its amendments lincluding GST/HST) is in excess of this limit, the TA must be signed by the authorized client and lorwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$300,000.00 . Loi (incluant la TPS/TVH) dépasse cette limite, l'AT doit èt l'autorité contractante de TPSGC pour autorisation.	sque la valeur de l'AT et ses modifications re signée par le client autorisé et transmise à
Name of Authorized Client: Noin du chent autorise Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
Signature Filmward	Signature	

# PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK (O WHAM) A CCOUNT REP  Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée a signer au nom de l'entrepreneur	In Well-	01/29/2019 Date
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A. General Information / Infor	mations génér	ales			
Contract Number / Numéro du con	trat : 47060-152	116/002/EL			
Contractor Name / Nom du Contra	teur : DONNA C	ONA INC.			
Task Authorization (fAl No. / Nº de l'autorisation de tâches (AT) :	Commitment Ni l'engagement :	o./N°de Fi	nancial Coding / Code nancier :	Date of Issuance / D d'émission :	ate Response required by / Réponse requise par :
20190002714	1000346181	1	92040060/6001/16100	Jul 8, 2019	Jul 12, 2019
3. For Amendments Only / Au	x fins de modif	ication seule	ment		
Amendment №. / № de la modifica	ution : 1				
Reason for the Amendment / Raisc	on pour la modific	ation :			
Amendment #1 is being raised to r	evise the level of	effort by addin	g days.		
C. TA Requirements / Exigenc	es relatives à l'i	AT			
lequired Resource(s) / Ressaurce(s	) requise(s)				
Category / Catégor	ie	Level / Niveau	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Master Data Management (MDM) S		3		English / Anglais	Reliability / Fiabilité
Statement of Work (tasks, delivera	bles, reports, etc.)	/ Enoncé des t	ravaux (táches, livrable	s, rapports, etc.)	
See Attached Annex A - Statement	of Work.				
Period of Services / Periode de sa	ervice;				
nitial Start Date / Date de début in	itiale: Ap	ril 1, 201 <b>9</b>	Initial End Da	ite / Date de fin initiale :	February 23, 2020
xtented End Date (See Reason for				our la modification) :	
Option To Extend Initial End Da	ite / Option pour	prolonger la da	te de fin initiale		
ravel Requirement(s) / Exigence(s	) de voyage :	No			
Vork Location(s) / Lieu(x) de travai	I:	333 North Capital Re		itario, K1A 01.8 or an alterni	ative CBSA location in the Nation
PART 2 (completed by the Contractor and to				7.7	narriādij projetī
${f PAKLZ}$ gas given by the Control of and ${f c}$	e the Decholosi/Project Au	mana / <b>FAN</b> /	IIC 4 consists or billions		rarria du project

Page 1 of 2



Name / Nom	Cates	jory / Catégor	ie	Leve! / Niveau		stic Profile / linguistique	Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Specialty	i/Software Arc in IBM Master ment (MDM) S	Data	3	Englis	h / Anglais	Reliability / Flat	silité	95841252	-
B. Estimated Cost / Coût e	stimatif						•••••			
Category / Catégo	oric	Level/ Niveau		im Rate / ournalier	Taux	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cor estimatif		
+ Bication/Software Archite (BM Master Dat Management (MOM)	a l	3						s:	225,000.00	
					ŗ	stimated Cos	t / Coût estimatif	5	225,000.00	
	Yotal i	Estimated Trav	rel and Livir	g Cost / C	out tota	estimatif de	voyage et de vie		\$0,00	
Taxe % applied / % de t	axes appliquées	13.000			Applic	able Taxes / T	axes applicables	5	29,250.00	
	*.			Tot	al Estima	ted Cost / Co	út total estimatif	\$	254,250,00	
PART 3 - TA APPROVI	AL BY CANA	DA / PART	'IE 3 - AF	PROB/	ATION	DE L'AT F	AR LE CANA	NDA		
y signing this TA, the authorited then ertifylies) shat the content of this TA is	t authority and/or the En accordance with t	PWGSC Contract he conditions of the	ing Authority : se Controct.				le client autorisé et/o « All est conforme au		intractante de 1PSGC lu contrat.	
The client's authorization limit is \$300.0 including GST/HST) is in excess of this orwanded to the PWSSC Contracting A	limit, the TA must be	signed by the auth		rsd (laclu	ant la TPS/7	Vr0 dépasse cet			le fAT et ees modificat client eutprisé et trans	
Jordan Komery Name of Authorized Clent / Norm du			Y JORDAN		of Contrac rite contrac	tante	lom de	Ü:as		
KOMERY JORD	AN _{Date: 2019}	08.02 08:01:10 -	04'00'	Signa	tuse					
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIC	NATU	RE DU	CONTRA	CTEUR			
MARK GLOHO Name and Title of individual authors de la personne autoridae à signer au	MA AC	OUNT E	40 o TVI		7.	Ú-		Cale		

Page 2 of 2



Travaux publics et Government Services Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

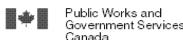
PART 1 (completed by the Technical/Protect Authority) / PARTIE 1 (complete par la Responsable technique / Chargé du protect

A. General Information / Informations	<u>générales</u>				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC	<b>c</b> .			
Task Authorization (TA) No. N° de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Financial C Code finar	•	Date of Issuance Date d'émission :	Response required by Réponse requise d'ici le :
20190002714	1000346181	1920400060/6	001/10400	Jan 18, 2020	29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulen	nent			
Amendment No. / Nº de la modification ;	2				
Reason for the Amendment / Raison pour la m	nodification :				
Amendment #1 is raised for the following 1) Extend end date from February 23, 20 2) Add d 3)Increase total cost from 225,000.00 to	20 to February 23, 202 ays total estimated lev	el of effort;			
C. TA Requirements / Exigences relative	ves à l'AT				
Required Resource(s) / Ressource(s) requise(	s)				
Category and Level Catégorie et Niveau		Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	_	: Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Specialty Management (MDM) Se Level 3			Englis	sh / Anglais	
Statement of Work (tasks, deliverables, reports	s, etc.) / Énoncé des trav	raux (tåches, livrable	s, rapports, et	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	01-Арг-2019	lni	tial End Date /	Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amen	dment) / Date de fin prol	ongée (voir Raison p	our la modific	ation):	
☐ Option To Extend Initial End Date / Option	n pour prolonger la date d	de fin initiale			
Optional End Date(s) / Date(s) de fin	optionnelle(s)		Sta	itus / Statut	
X			O In E	ffect / en vigueur	
Travel Requirement(s) / Exigence(s) de voyage	n/a				

		٠.				
VVOIK L	ocation(	S) /	Lieu(x	) ae	travail	*

333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services u					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / N° du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Application/Software Architect - Specialty in BM Maaster Data Management (MDM) Server		English/Anglais		0.000	\$495,000.00
		<u> </u>	Estimated	L Cost / Coût estimatif	\$495,000.00
Т	otal Estimated Travel an	d Living Cost / Coût	total estimatio	f de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes / T	axes applica	bles	\$64,350.00
:		Total Estin	nated Cost /	Coût total estimatif	\$559,350.00
Check applicable Basis of Pa Cocher la Base de Paiement ap	•	Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
By signing this TA, the authorized client authority and/ Authority certify(ies) that the content of this TA is in ac conditions of the Contract.	or the PWGSC Contracting cordance with the	En apposant sa signatu TPSGC atteste(nt) que	re sur l'AT, le c le contenu de c		x conditions du contrat.
By signing this TA, the authorized client authority and/ Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excessore signed by the authorized client and forwarded to the	or the PWGSC Contracting cordance with the value of a TA and its s of this limit, the TA must	En apposant sa signatu TPSGC atteste(nt) que La limite d'autorisation o modifications (excluant les taxes appl	re sur l'AT, le c le contenu de c du client est 15 icables) dépass	lient autorisé et/ou l'auto ette AT est conforme au	x conditions du contrat. ur de l'AT et ses tre signée par le client
By signing this TA, the authorized client authority and/ Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000 When the amendments (excluding Applicable Taxes) is in exces be signed by the authorized client and forwarded to the Authority for authorization.	or the PWGSC Contracting cordance with the value of a TA and its s of this limit, the TA must e PWGSC Contracting	En apposant sa signatu TPSGC atteste(nt) que La limite d'autorisation o modifications (excluant les taxes appl autorisé et transmise à	re sur l'AT, le c le contenu de c du client est 15 icables) dépass l'autorité contra	lient autorisé et/ou l'auto cette AT est conforme au 0,000 \$. Lorsque la valeu se cette limite, l'AT doit ê	x conditions du contrat. ur de l'AT et ses tre signée par le client autorisation
By signing this TA, the authorized client authority and/Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000 When the amendments (excluding Applicable Taxes) is in excess signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité technical Authority / Digitally signed by DAROUZE	or the PWGSC Contracting cordance with the value of a TA and its s of this limit, the TA must e PWGSC Contracting	En apposant sa signatu TPSGC atteste(nt) que La limite d'autorisation o modifications (excluant les taxes appl autorisé et transmise à  Name of Contracting AL  Michaud,	re sur l'AT, le cole contenu de cole contenu de cole contenu de cole du client est 15 icables) dépasse l'autorité contra uthority / Nom de contenu de la contenu de la cole Michaud, el cole el Michaud, cole ou e Pwissc.Tesecou el veyesc.Tesecou el	dient autorisé et/ou l'auto cette AT est conforme au 0,000 \$. Lorsque la valeu se cette limite, l'AT doit ê cotante de TPSGC pour a le l'autorité contractante	x conditions du contrat. ur de l'AT et ses tre signée par le client autorisation
By signing this TA, the authorized client authority and/ Authority certify(ies) that the content of this TA is in acconditions of the Contract.  The client's authorization limit is \$150,000 When the earnendments (excluding Applicable Taxes) is in excess one signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité technical Authori	or the PWGSC Contracting cordance with the value of a TA and its s of this limit, the TA must e PWGSC Contracting	En apposant sa signatu TPSGC atteste(nt) que La limite d'autorisation o modifications (excluant les taxes appl autorisé et transmise à  Name of Contracting AL  Michaud,	re sur l'AT, le cole contenu de con	dient autorisé et/ou l'auto cette AT est conforme au 0,000 \$. Lorsque la valeu se cette limite, l'AT doit ê cotante de TPSGC pour a le l'autorité contractante	x conditions du contrat ur de l'AT et ses tre signée par le client autorisation
TONI Date: 2020.03.31 07	or the PWGSC Contracting cordance with the value of a TA and its s of this limit, the TA must e PWGSC Contracting  Date 7:45:06	En apposant sa signatur TPSGC atteste(nt) que La limite d'autorisation of modifications (excluant les taxes appl autorisé et transmise à Name of Contracting Au Michaud, Daniel	re sur l'AT, le cle contenu de c du client est 15i icables) dépass l'autorité contra uthority / Nom d ally signed by: Michaud, el co ou = PWSC-TPSG co ou = PWSC-TPSG co ou = PWSC-TPSG	dient autorisé et/ou l'autorette AT est conforme au 0,000 \$. Lorsque la valeuse cette limite, l'AT doit ê actante de TPSGC pour au le l'autorité contractante	x conditions du contrat. ur de l'AT et ses tre signée par le client autorisation



Public Works and Government Services Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Informations	nénérales				
Contract Number / Numéro du contrat :	47060-152116/002/E	L			
Contractor Name / Nom du Contracteur :	DONNA CONA INC				
Task Authorization (TA) No.  Nº de l'autorisation de tâches (AT) :	Commitment No. N° de l'engagement :	Response required by Réponse requise d'ici le :			
20190002714	1000346181	1920400060/6001/10400 Jan 18, 2020			29-Jan-2020
B. For Amendments Only / Aux fins de	modification seulem	<u>ent</u>			
Amendment No. / Nº de la modification :	3				
Reason for the Amendment / Raison pour la m	odification :				
Amendment # is raised for the following:  1) To replace resource	yes à l'ΔT				
Required Resource(s) / Ressource(s) requise(					
Category and Level Catégorie et Niveau	-/	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	•	c Profile / Profile guistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - Specialty Management (MDM) Se Level 3			Englis	sh / Anglais	
Statement of Work (tasks, deliverables, report	s, etc.) / Énoncé des trav	aux (tâches, livrables	s, rapports, etc	c.)	
See attached / Voir pièce jointe					
Period of Services / Période de service:					
Initial Start Date / Date de début initiale :	01-Apr-2019	Init	tial End Date	/ Date de fin initiale :	23-Feb-2021
Extented End Date (See Reason for the Amer	dment) / Date de fin prol	ongée (voir Raison p	our la modifica	ation):	
☐ Option To Extend Initial End Date / Optio	n pour prolonger la date d	de fin initiale			
Optional End Date(s) / Date(s) de fir	optionnelle(s)		Sta	atus / Statut	
Х			O In E	ffect / en vigueur	
Travel Requirement(s) / Exigence(s) de voyag					
Work Location(s) / Lieu(x) de travail :		er Road, Ottawa, Ont in the Nat	tario, K1A 0L8 tional Capital I		BSA location

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services under the contract of the contract					
Name / Nom Category and Level / Catégorie et Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	Linguistic Profile / Profil linguistique	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
- Terminated 2020-05-04 Application/Software Architect - Specialty in IBM Maaster Data Management (MDM) Server		English/Anglais	•	0000	\$206,550.00
- Active 2020-05-14 Application/Software Architect - Specialty in IBM Maaster Data Management (MDM) Server		English/Anglais			\$288,450.00
			Estimated	Cost / Coût estimatif	\$495,000.00
T	otal Estimated Travel ar	nd Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
Taxes % applied # % taxes appliquées	13	Applicable Taxes / T	axes applicat	oles	\$64,350.00
		Total Estin	nated Cost /	Coût total estimatif	\$559,350.00
Check applicable Basis of Pay Cocher la Base de Paiement ap		Maximum Price / Prix Maximum :		Firm Price / Prix Ferme :	
Authority certify(ies) that the content of this TA is in acconditions of the Contract.	ccordance with the	, , ,	le contenu de c	cette AT est conforme a	
• • • •	value of a TA and its s of this limit, the TA must	La limite d'autorisation modifications (excluant les taxes appl	le contenu de c du client est 15 licables) dépass		ux conditions du contrat ur de l'AT et ses être signée par le client
conditions of the Contract.  The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in exces oe signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité techn	value of a TA and its is of this limit, the TA must e PWGSC Contracting	La limite d'autorisation modifications (excluant les taxes appl	le contenu de c du client est 150 licables) dépass l'autorité contra	ette AT est conforme at 0,000 \$. Lorsque la vale se cette limite, l'AT doit o ctante de TPSGC pour	ux conditions du contrat. ur de l'AT et ses être signée par le client
The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excess one signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité techn  Digitally signed TONI Date: 2020.0504'00'	value of a TA and its is of this limit, the TA must e PWGSC Contracting  Date d by DAROUZE	La limite d'autorisation modifications (excluant les taxes appl autorisé et transmise à Name of Contracting Accontractante CASTO KARIE	le contenu de contenu	cette AT est conforme at 0,000 \$. Lorsque la vale se cette limite, l'AT doit octante de TPSGC pour le l'autorité    Politally signed by CASTONGUA   DN. Crea, Orgo, Our-cora-adro, SERIALNUMBER-201905811276, AARIEANNE, CONTRANEE DE 1276, AARIEANNE, AARIEANNEE, AARIEANNEE, AARIEA	ux conditions du contrat ur de l'AT et ses être signée par le client autorisation
The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in excess one signed by the authorized client and forwarded to the Authority for authorization.  Name of Technical Authority / Nom de l'autorité techn  Digitally signed TONI Date: 2020.05.	value of a TA and its is of this limit, the TA must e PWGSC Contracting  Date d by DAROUZE	La limite d'autorisation modifications (excluant les taxes appl autorisé et transmise à Name of Contracting Al contractante CASTO KARIE Signature	le contenu de de du client est 150 di client est 150 dicables) dépasse l'autorité contra duthority / Nom de NGUA	cette AT est conforme au  0,000 \$. Lorsque la vale  se cette limite, l'AT doit o  ctante de TPSGC pour  Disconsider de CASTONGUA  Disconsider de CASTONGUA  Disconsider de CASTONGUA  Disconsider de CASTONGUA  Pour la maproving this docu  Location  Date 2000-514 100212  Foul Phateman PPT Version 6.44	ux conditions du contrat ur de l'AT et ses  être signée par le client autorisation  Date  VARRIEANNE DUPPERSONNEL 1000 + CN=CASTONGUAY

Travaux publics et Services gouvernementaux Canado

# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complété par le Responsable technique / Chargé du projet)

A. General Information / Infor	mations généra	ales				
Contract Number / Numéro du cont		116/002/EL				
Contract Number / Numero da cont	77000 132	110/002/12				
Contractor Name / Nom du Contrac	teur : DONNA CO	ONA INC.				
Task Authorization (TA) No. / Nº de l'autorisation de tâches (AT) :	Commitment No l'engagement :	•	Financial Coding / Code financier:	Date of Issuance / D d'émission :	ate Response re Réponse req	
20190002714	1000346181		192040060/6001/16100	February 11, 2019	February 15,	2019
B. For Amendments Only / Aux	cfins de modific	cationseul	<u>ement</u>			
Amendment No. / № de la modifica	tion:					
Reason for the Amendment / Raiso	n pour la modifica	ation :				
C. TA Requirements / Exigence	s relatives à l'A	I				
Required Resource(s) / Ressource(s)	requise(s)					
Category / Catégorie	2	Level / Nivea	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Linguistic Profile / Profile linguistique	Required Level(s) of Niveau(x) de sécurit	
Application/Software Architect - S Master Data Management (MDM) Se	- -	3		English / Anglais	Reliability / Fiabilité	- A
Statement of Work (tasks, deliverab	les, reports, etc.),	/ Énoncé des 1	ravaux (tâches, livrables,	rapports, etc.)		
See Attached Annex A - Statement of	of Work.					
Period of Services / Période de ser	vice:					
Initial Start Date / Date de début init	iale : Apr	il 1, 2019	Initial End Dat	te / Date de fin initiale :	February 23	3, 2020
Extented End Date (See Reason for t	he Amendment) ,	/ Date de fin p	orolongée (voir Raison po	our la modification)		
Option To Extend Initial End Dat	e / Option pour p	rolonger la da	ite de fin initiale			
Travel Requirement(s) / Exigence(s)	de voyage :	No				
Work Location(s) / Lieu(x) de travail :		333 North Capital Re		tario, K1A OL8 or an alterna	tive CBSA location in	the National
PART 2 (completed by the Contractor and/or t	the Technical/Project Auth	ority) / PAR	ΠΕ 2 (complété par le Contract	eur et/ou le Responsable technique / Cha	irgé du projet)	
A. Contractor Resource(s) / Res			ois approuvée, seules les ressources	suivantes peuvent fournir des services so	us la présente AT.	

Name / Nom	Category / Catégorie	Level / Niveau	Linguistic Profile / Profile linguistique	Level of Security / Niveau de sécurité	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3	English / Anglais	Reliability / Fiabilité	95841252	

B. Estimated Cost / Coûtestimatif						
Category / Catégorie	Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coût estimatif		
+ lication/Software Architect - Specialty in IBM Master Data Management (MDM) Server	3			\$90,000.00		
		E	stimated Cost / Coût estimatif	\$90,000.00		
Total	Estimated Trav	el and Living Cost / Coût total	estimatif de voyage et de vie	\$0.00		
Taxe % applied / % de taxes appliquées	\$11,700.00					
	\$101,700.00					

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

ne PWGSC Contracting Authority the conditions of the Contract.	En apposant sa signature sur l'AT, le client autoris atteste(nt) que le contenu de cette AT est conforr	
value of a TA and its amendments e signed by the authorized client and zation.	La limite d'autorisation du client est \$300,000.00 . (incluant la TPS/TVH) dépasse cette limite, l'AT dol l'autorité contractante de TPSGC pour autorisation	It être signée par le client autorisé et transmise à
Date	Name of Contracting Authority / Nom de l'autorité contractante	Date
	Signature	
	the conditions of the Contract.  ralue of a TA and its amendments e signed by the authorized client and zation.	atteste(nt) que le contenu de cette AT est conformalue of a TA and its amendments e signed by the authorized client and zation.  La limite d'autorisation du client est \$300,000.00 (incluant la TPS/TVH) dépasse cette limite, l'AT do l'autorité contractante de TPSGC pour autorisation  Name of Contracting Authority / Nom de l'autorité contractante

## PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNATURE DU CONTRACTEUR

MARK COLDHAM	Mall	feb 12, 2019
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature	Date

# STATEMENT OF WORK ANNEX A

_	_				
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Canada Border Services Agency requires one (1) Application/Software Architect - Specialty in IBM Master Data Management (MDM) Server Background Level 3

#### Background:

The Canada Border Services Agency (CBSA) is undertaking an ambitious agenda of change in support of various Beyond the Border initiatives and Border modernization efforts. The Information, Science and Technology Branch (ISTB) support these efforts with oversight and alignment of major capital projects and the associated information technology solutions. Traditional IT functions have been augmented with program directorates that drive business transformation efforts and alignment of business solutions in portfolios for Travelers, Commercial, Common and Corporate projects.

To advance the planning, development and implementation of the Agency's transformation agenda, ISTB is implementing an enterprise approach to the management of its portfolio of systems, projects and services.

In support of the above, the Common Services Portfolio Directorate (CSPD) has undertaken the Master Data Management Service (MDMS), to put in place an Enterprise Building Blocks that can be leveraged by other initiatives including the Entry/Exit (E/E), BioMetrics and UPASS projects. The delivery of the Entry/Exit project is dependent on successful delivery of the foundational components found in MDMS.

### Objective:

To acquire professional services for one (1) Application/Software Developer Level 3 to perform the tasks and deliverables below.

#### Tasks and Deliverables:

The Contractor must provide the professional services to perform the following tasks and deliver the following project deliverables, first in draft format, to be followed by a final product incorporating comments of the CSPD project manager (or their delegates).

#### Tasks

Provide CBSA with technical expertise and guidance on the following topics:

- Develop industry best practices in performance tuning, load balancing and optimization;
   strategies for IBM InfoSphere MDM Server environment;
- Provide weekly scheduled knowledge transfer sessions to CBSA application support team;
- Develop best practices for IBM MDM implementation;
- Review and comment on MDM and other CBSA Data sources data mapping;
- Review and comment on MDM data mapping and MDM business functional requirement;
- Review and comment on CBSA non-functional requirements;
- Provide adhoc assistance and guidance to the MDM development team;
- Prepare test cases and provide input to test plans to validate final designs in collaboration with the CBSA test coordinator(s);
- Provide guidance to the project manager for HR planning;
- Configure MDM security frameworks and integration with CBSA security policy and identity stores;
- · Review and comment on MDM performance tuning; and
- Follow InfoTrellis assessment methodology to review CBSA's cloud strategy;
- Review overall MDM architecture and identify alignments/gaps against CBSA's objective;
- Review already implemented integrations and the approach;
- Review key integration concerns, issues, and errors;
- Meetings with CDI consumers where applicable;

#### Deliverables:

The Contractor shall provide the following:

- Contractor will deliver the summary document identifying alignments/gaps against CBSA's
   Architecture objective within 4 weeks of start date;
- Produce and/or update MDM, and DPLS ICDs by end of TA;
- Review and update as required, MDM components detailed design document. Architecture Design Specification (ADS) parts 3 & 4 documents for CDR by end of TA;
- Provide review and comments on already implemented integrations and its approach within 4
  weeks of start date;
- Provide review and comments on key integration concerns, issues, and errors within 4 weeks of start date;
- Review key HL integration concerns and map new integrations and find HL functionality gaps by April 30, 2019;
- Identify migration approach to meet CBSA's strategic & tactical needs by May 31, 2019;
- Determine roadmap to migrate MDM solution system by June 30, 2019.

All deliverables must be provided in conformance with CBSA's standard desktop operating software which is Microsoft Office Suite (including Word, Excel, Visio and PowerPoint) and Archimate in English.

All deliverables must be provided in a manner that permits integration with CBSA's technical and operational environment as specified by the Project Authority. All deliverables must be in the format of or compatible with the (SLMF) Service Life Cycle Management Framework.

All deliverables must be provided to the Project Authority for their review and acceptance. Should there be problems or issues with the deliverables being presented, the Project Authority will notify the resource of the items that must be modified within five (5) business days of receipt of the deliverable.

**Technical Environment** 

As defined in Section 12 of the contract number 47060-152116/002/EL.

#### Constraints

At no time and in no way is CBSA data to be removed from CBSA sites, nor will access to or from the Contractor's IT systems through the use of a session or ling (e.g. VPN) be permitted. The contractor must comply with CBSA internal security policies, directives, standards, and guidelines at all times during the contract.

The CBSA's working hours are between 07:00 to 18:00 Monday through Friday, except for Statutory Holidays where Government Offices are closed. These are core hours and are not representative of the duration of a Contractor's work day.

#### Language

The proposed Resource will be required to perform the work in English. Every individual proposed in its bid will be fluent in English. The individual proposed must be able to communicate orally and in writing in English without any assistance and with minimal errors.

#### **Reporting Requirements**

If a TA has been authorized, the resource must provide a weekly status report in MS Word electronically to the Project Authority outlining what work was undertaken during the reporting period, what work is still outstanding, and any issues or concerns that the resource wants to identify to the attention of the Project Authority. The status reports must also be supported by a monthly detailed time sheet mapped to deliverables, using standard template.

#### Location of Work

The work is expected to be performed on CBSA premises located at 333 North River Road, Ottawa, Ontario, K1A 0L8 or an alternative CBSA location in the National Capital Region. There is no travel requirement under this Task Authorization.

#### **Client Support**

The contractor will be provided with a CBSA user ID, password, workstation and e-mail address and other materials (supporting documentation) as required. CBSA will provide each resource with a building access pass, network account when working in CBSA premises.

PART 1 (completed by the Technical/Service Assistant) / PARTIF 1 (complete note Bernary the technique (Chared du projet)

Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  English / Anglais Secret  English / Anglais Secret  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage: N/A  Work Location(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	A. General Information / Infor	mations génér	ales					
Task Authorization (TA) No. /	Contract Number / Numéro du cont	rat : 47060-152	116/001/EL					
de l'autorisation de taches (AT): l'engagement : financier : d'émission : Réponse requise par : 2019003062	Contractor Name / Nom du Contrac	teur : IBM		aa kaasan ka waxa maa waxaanaa waxaan ka				
B. For Amendments Only / Aux fins de modification seulement  Amendment No. / N° de la modification:  Time extension  C. TA Requirements / Exigences relatives à l'AT  Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017  Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):  June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  It avel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)						· ·	,	
Reason for the Amendment / Raison pour la modification :  Time extension  C. TA Requirements / Exigences relatives à l'AT  Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017 Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)	2019003062	1000335563	19	91160010	June 1, 2019	June 28, 2019		
Reason for the Amendment / Raison pour la modification :  Time extension  C. TA Requirements / Exigences relatives à l'AT  Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau d'effort estimatif (jours) / Niveau d'effort estimatif (jours) / Niveau (linguistique   Niveau(s) de sécurité requis    Application/Software Architect - specialty in IBM (Integration Bus (IBB) - Enterprise Service Bus (ESB)   3   English / Anglais   Secret    Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale :   April 6, 2017   Initial End Date / Date de fin initiale :   May 31, 2019    Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :   June 28, 2019    Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage :   N/A    Work Location(s) / Lieu(x) de travail :   333 North River Road, Ottawa, ON (National Capital Region)	B. For Amendments Only / Aux	c fins de modif	ication seule	ment				
C. TA Requirements / Exigences relatives à l'AT  Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Statement of Work (tasks, deliverables, reports, etc.) / Enoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017 Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):  June 28, 2019  Travel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)	Amendment No. / Nº de la modifica	tion: 1						
C. TA Requirements / Exigences relatives à l'AT  Required Resource(s) / Ressource(s) requise(s)  Category / Catégorie  Level / Niveau  Estimated Level of Effort (clays) / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage: N/A  Work Location(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	Reason for the Amendment / Raison	n pour la modific	ation :					
Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  English / Anglais Secret  English / Anglais Secret  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale: April 6, 2017 Initial End Date / Date de fin initiale: May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification): June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage: N/A  Work Location(s) / Lieu(x) de travail: 333 North River Road, Ottawa, ON (National Capital Region)	Time extension			nga magaman magaman madamanan garan magayahka barinda ani na kada da da da babila da sairibid				
Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais  Secret  Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017 Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):  June 28, 2019  Travel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)								
Category / Catégorie  Level / Niveau  Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage : N/A  Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	C. TA Requirements / Exigence	es relatives à l'A	<u>NT</u>					
Category / Catégorie  Level / Niveau d'effort estimatif (jours)  Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)  3 English / Anglais Secret  Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017 Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):  June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)	Required Resource(s) / Ressource(s)	requise(s)	<b>VIII.</b>				1	
Integration Bus (IIB) - Enterprise Service Bus (ESB)  Statement of Work (tasks, deliverables, reports, etc.) / Énoncé des travaux (tâches, livrables, rapports, etc.)  Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale:  April 6, 2017  Initial End Date / Date de fin initiale:  May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification):  June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage:  N/A  Work Location(s) / Lieu(x) de travail:  333 North River Road, Ottawa, ON (National Capital Region)	Category / Catégorie	9	Level / Niveau	Effort (days) / Niveau d'effort estimatif			- 1	
Please see the attached SOW for details pertaining to the work being completed under this task authorization.  Period of Services / Période de service:  Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage : N/A  Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)			3		English / Anglais	Secret		
Period of Services / Période de service:  Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage : N/A  Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Statement of Work (tasks, deliverab	les, reports, etc.)	/ Énoncé des tr	avaux (tâches, livrables	s, rapports, etc.)			
Initial Start Date / Date de début initiale : April 6, 2017 Initial End Date / Date de fin initiale : May 31, 2019  Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) : June 28, 2019  Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage : N/A  Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Please see the attached SOW for de	tails pertaining to	the work bein	ng completed under thi	is task authorization.			
Extented End Date (See Reason for the Amendment) / Date de fin prolongée (voir Raison pour la modification) :    June 28, 2019	Period of Services / Période de ser	rvice:		### CONTROL OF THE PROPERTY OF				
Option To Extend Initial End Date / Option pour prolonger la date de fin initiale  Travel Requirement(s) / Exigence(s) de voyage :  Work Location(s) / Lieu(x) de travail :  333 North River Road, Ottawa, ON (National Capital Region)	Initial Start Date / Date de début ini	tiale : Ap	ril 6, 2017	Initial End Da	ite / Date de fin initiale :	May 31, 2019		
Travel Requirement(s) / Exigence(s) de voyage :  N/A  Work Location(s) / Lieu(x) de travail :  333 North River Road, Ottawa, ON (National Capital Region)	Extented End Date (See Reason for t	the Amendment)	/ Date de fin pr	rolongée (voir Raison p	our la modification) :	June 28, 2019		
Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)	Option To Extend Initial End Dat	e / Option pour p	orolonger la dat	te de fin initiale				
	Travel Requirement(s) / Exigence(s) de voyage : N/A							
	Work Location(s) / Lieu(x) de travail : 333 North River Road, Ottawa, ON (National Capital Region)							
PART 2 (completed by the Contractor and/or the Technical/Project Authority ) / PARTIE 2 (complété par le Contracteur et/où le Responsable technique / Chargé du projet)	1.541	1.7% - Makking - 1.8% // - 5		<u>šei oj</u> , priste iššako 1941. urbitoto				



Name / Nom	Category / Catégorie	Level / Niveau		Level of Security / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC	
	Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB)	3	English / Anglais	Secret	93080390	+

Level / Niveau	Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Cost / Coùt estimatif			
3			\$96,250.00			
		Estimated Cost / Coût estimatif	\$96,250.00			
Estimated Trav	rel and Living Cost / Coût tota	al estimatif de voyage et de vie	\$0.00			
13.000	Applic	cable Taxes / Taxes applicables	\$12,512.50			
Total Estimated Cost / Coût total estimatif						
	Niveau 3 Estimated Trav	Niveau journalier  3  Estimated Travel and Living Cost / Coût total  13.000 Applie	Level / Niveau Per Diem Rate / Taux (days) / Niveau d'effort estimatif (jours)  3  Estimated Cost / Coût estimatif  Estimated Travel and Living Cost / Coût total estimatif de voyage et de vie  13.000  Applicable Taxes / Taxes applicables			

## PART 3 - TA APPROVAL BY CANADA / PARTIE 3 - APPROBATION DE L'AT PAR LE CANADA

By signing this TA, the authorized client authority and/or the PWGSC Contracting Authority certify(ies) that the content of this TA is in accordance with the conditions of the Contract.	En apposant sa signature sur l'AT, le client autorisé et/cu l'autorité contractante de TPSGC atteste(nt) que le contenu de cette AT est conforme aux conditions du contrat.			
The client's authorization limit is \$1,200,000.  When the value of a TA and its amendments (including GST/HST) is in excess of this limit, the TA must be signed by the authorized client and forwarded to the PWGSC Contracting Authority for authorization.	La limite d'autorisation du client est \$1,200,000. Calcorsque la valeur de l'AT et ses modifications (incluant la TPS/TVH) dépasse cette limite, l'AT doit être signée par le client autorisé et transmise à l'autorité contractante de TPSGC pour autorisation.			
Name of Authorized Client / Nom du client autorise Date	Name of Contracting Authority / Nom de Date l'autorité contractante			
Signature	Signature			
PART 4 - CONTRACTOR SIGNATURE / PARTIE 4 - SIGNA	ATURE DU CONTRACTEUR			
Name and Title of individual authorized to sign on behalf of the Contractor / Nom et titre de la personne autorisée à signer au nom de l'entrepreneur	Signature Date			

A. Contractor Resource(s) / Ressource(s) du Contracteur



# TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PAIRE 1 completed by the Sechnical Project Cuchestry; / PAIR	ITIE 1 completé pa	r le Responsable technique / Charge	dupojet	
A. General Information / Informations gén	<u>érales</u>			
Contract Number / Numéro du contrat : 47060-	152116/001/EL			
Contractor Name / Nom du Contracteur : IBM				
Task Authorization (TA) No. / N° Commitment de l'autorisation de tâches (AT) : l'engagement		inancial Coding / Code inancier :	Date of Issuance / Date of Issua	ate Response required by / Réponse requise par :
2019003062 1000335563		950-500-20	Mar 20, 2019	Mar 25, 2019
B. For Amendments Only / Aux fins de mod	dification seul	<u>ement</u>		
Amendment No. / Nº de la modification :				
Reason for the Amendment / Raison pour la mod	ification :			
	-			
C. TA Requirements / Exigences relatives à Required Resource(s) / Ressource(s) requise(s)	ITAI			
Category / Catégorie	Level / Nivea	d'effort estimatif	Linguistic Profile / Profile linguistique	Required Level(s) of Security / Niveau(x) de sécurité requis
Application/Software Architect - specialty in IBM Integration Bus (IIB) - Enterprise Service Bus (ESB		(jours)	English / Anglais	Secret
Statement of Work (tasks, deliverables, reports, et	.c.) / Énoncé des t	ravaux (tâches, livrables	s, rapports, etc.)	L
Please see the attached SOW for details pertaining	g to the work bei	ng completed under thi	is task authorization.	
Period of Services / Période de service:			<u> </u>	
Initial Start Date / Date de début initiale :	Mar 25, 2019	Initial End Da	ite / Date de fin initiale :	May 31, 2019
Extented End Date (See Reason for the Amendme	nt) / Date de fin p	prolongée (voir Raison p	our la modification) :	
Option To Extend Initial End Date / Option por	ur prolonger la da	ate de fin initiale	1	
Travel Requirement(s) / Exigence(s) de voyage :	N/A			
Work Location(s) / Lieu(x) de travail :	333 North	River Road, Ottawa, ON	l (National Capital Region)	
PART 2 correlessed by the Contractor and/of the TechnicalProject	Authority) / PAR	NE 2 (complete par le Contract	eur et/ou le Résponsable technique / Ch	aroé du projeti 🖖

Note: once approved, only the following resources may provide services under this TA. / Nota: une fois approuvée, seules les ressources suivantes peuvent fournir des services sous la présente AT.

# TASK AUTHORIZATION FORM

Name / Nom	ame / Nom I (atégory / Catégorie I		Level / Niveau	J		Level of Securit de sécurité	y / Niveau	PWGSC Security File No. / Nº du dossier de sécurité TPSGC		
	specialty in I	n/Software Ar BM Integration se Service Bus	n Bus (IIB) -	3	3 English / Anglais Secret			93080390		
B. Estimated Cost / Coût e	stimatif									
Category / Catégo	rie	Level / Niveau		m Rate / 1 urnalier	Гаих	(days) / N	Level of Effort iveau d'effort atif (jours)	Total Cos estimatif		
+ lication/Software Architect Integration Bus (IIB) - Ente Bus (ESB)		3	000000					\$	96,250.00	
					E	stimated Cos	t / Coût estimatif	\$	96,250.00	
	Total	Estimated Tra	vel and Livin	g Cost / C	oût tota	l estimatif de	voyage et de vie		\$0.00	•
Taxe % applied / % de ta	xes appliquées	13.000			Applic	able Taxes / T	axes applicables	\$	12,512.50	1
				Tota	al Estima	ated Cost / Co	ût total estimatif	\$1	08,762.50	1
PART 3 - TA APPROVA	Transfer (State State St		11/198 - 11/19/13 TA GAB	PROB <i>A</i>	TION	DE L'AT P	AR LE CANA	\DA		
By signing this TA, the authorized client certify(ies) that the content of this TA is	in accordance with	e PWGSC Contract the conditions of t	ing Authority he Contract.				le client autorisé et/o e AT est conforme au:			
The client's authorization limit is \$ 1,000 (including GST/HST) is in excess of this li forwarded to the PWGSC Contracting Ai	imit, the TA must be utnority for authoriz	signed by the aut ation.	horized client ar	nd (inclua	ant la TPS/1		e limite, l'AT doit être		e l'AT et ses modificati client autorisé et trans	
Name of Authorized Client / Nom du c	lient autorisé D	<u> </u>	(01)		of Contrac rité contrac	ting Authority / Nation	lom de	Date		
Signature	** ***********************************			Signat	ure					
PART 4 - CONTRACTO	R SIGNATU	RE / PART	IE 4 - SIG	NATUF	RE DU	CONTRAC	TEUR			
Mitchell Carkner	- Signing	Authority		m	itch	ell Car	kner	March	19th, 2019	
Name and Title of individual authorized to sign on behalf of the Contractor / Nome et titre de la personne autorisée à signer au nom de l'entrepreneur			Sign	ature			Date			



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

## TASK AUTHORIZATION FORM FORMULAIRE D'AUTORISATION DE TÂCHES

PART 1 (completed by the Technical/Project Authority) / PARTIE 1 (complete par le Responsable technique / Charoé du order

	générales			
Contract Number / Numéro du contrat :	47060-152116/001/			
Contractor Name / Nom du Contracteur :	IBM			
Task Authorization (TA) No. Nº de l'autorisation de tâches (AT) :	Commitment No. N⁰ de l'engagement :	Financial Co Code financ		Response required by Réponse requise d'ici le :
2020000349	1000346513	1911200	Jan 28, 2020	28-Jan-2020
B. For Amendments Only / Aux fins d	e modification seuler	nent		
Amendment No. / Nº de la modification :		Marianta Marianta		
Reason for the Amendment / Raison pour la 1) Extend end date from January 30, 2020 to 2) Add 2 3)Increase total cost from \$341,185.00 to \$7	January 31, 2021; total estimated level of ef	fort; taxes extra)		
C. TA Requirements / Exigences relat				
Required Resource(s) / Ressource(s) requise				
		Estimated Level of		
Category and Level Categorie et Niveau		Effort (days) / Niveau d'effort estimatif	Linguistic Profile / Profile linguistique	Required Level(s) o Security / Niveau(x) de sécurité requis
	- Specialty in IBM	Niveau		Security / Niveau(x) de
Programmer / Software Developer Operation Decision Manager (ODM) Advanced	- Specialty in IBM Standard and ODM	Niveau d'effort estimatif (jours)	linguistique English / Anglais	Niveau(x) de sécurité requis
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo	- Specialty in IBM Standard and ODM	Niveau d'effort estimatif (jours)	linguistique English / Anglais	Security / Niveau(x) de sécurité requis
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo	- Specialty in IBM Standard and ODM	Niveau d'effort estimatif (jours)	linguistique English / Anglais	Security / Niveau(x) de sécurité requis
Programmer / Software Developer Operation Decision Manager (ODM)	- Specialty in IBM Standard and ODM	Niveau d'effort estimatif (jours) vaux (tâches, livrables	linguistique English / Anglais rapports, etc.)	Security / Niveau(x) de sécurité requis Secret
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :	- Specialty in IBM Standard and ODM rts, etc.) / Énoncé des tra	Niveau d'effort estimatif (jours) vaux (tâches, livrables	linguistique English / Anglais rapports, etc.)	Security / Niveau(x) de sécurité requis Secret
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale :  Extented End Date (See Reason for the Ame	- Specialty in IBM Standard and ODM  rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro	Niveau d'effort estimatif (jours)  vaux (tâches, livrables  Initialongée (voir Raison po	linguistique English / Anglais rapports, etc.)	Security / Niveau(x) de sécurité requis Secret
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Ame	- Specialty in IBM Standard and ODM  rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro on pour prolonger la date	Niveau d'effort estimatif (jours)  vaux (tâches, livrables  Initialongée (voir Raison po	linguistique English / Anglais rapports, etc.)	Security / Niveau(x) de sécurité requis Secret
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Ame	- Specialty in IBM Standard and ODM  rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro on pour prolonger la date	Niveau d'effort estimatif (jours)  vaux (tâches, livrables  Initialongée (voir Raison po	linguistique  English / Anglais  rapports, etc.)  al End Date / Date de fin initiale ur la modification):	Security / Niveau(x) de sécurité requis Secret
Programmer / Software Developer Operation Decision Manager (ODM) Advanced  Statement of Work (tasks, deliverables, repo See attached / Voir pièce jointe  Period of Services / Période de service: Initial Start Date / Date de début initiale : Extented End Date (See Reason for the Ame	- Specialty in IBM Standard and ODM  rts, etc.) / Énoncé des tra  03-Jun-2019 endment) / Date de fin pro on pour prolonger la date in optionnelle(s)	Niveau d'effort estimatif (jours)  vaux (tâches, livrables  Initialongée (voir Raison po	linguistique  English / Anglais  rapports, etc.)  al End Date / Date de fin initiale ur la modification):  Status / Statut	Security / Niveau(x) de sécurité requis Secret

Contractor Resource(s) and Estimated Note: once approved, only the following resources may provide services up	Cost / Ressource(s)	du Contracteur (	<u>et Coût tota</u> les peuvent fournir des	l estimatif s services sous la présente AT	
Name / Nom Category and Level / Catégorie et Niveau			Per Diem Rate / Taux journalier	Estimated Level of Effort (days) / Niveau d'effort estimatif (jours)	Total Estimated Cost / Coût total estimatif
Programmer / Software Developer - Specialty in IBM Operation Decision Manager (ODM) Standard and ODM		English			\$746,460.00
,			Estimated	Cost / Coût estimatif	\$746,460.00
7	otal Estimated Travel an	d Living Cost / Coût	total estimatif	de voyage et de vie	\$0.00
		Total Estir	mated Cost /	Coût total estimatif	\$746,460.00
Check applicable Basis of Pa Cocher la Base de Paiement a	yment / oplicable :	Maximum Price / Prix Maximum ;		Firm Price / Prix Ferme :	
The client's authorization limit is \$150,000. When the amendments (excluding Applicable Taxes) is in exces be signed by the authorized client and forwarded to th Authority for authorization.	s of this limit, the TA must	modifications (excluant les taxes app autorisé et transmise à	olicables) dépass l'autorité contra	se cette limite, l'AT doit ê ctante de TPSGC pour a	tre signée par le dlient autorisation
Name of Technical Authority / Nom de l'autorité techn  TOULDAROUZE  Signature  Day You	Date	Name of Contracting A  CASTO  Y KARIE  Signature	NGUA	e l'autorité contractante Digitally signed by CASTONGL DN: C=ca, O=gc, OU=ccra-adr OU=PERSONNEL, SERIALNUMBER=2019058112 CN=CASTONGUAY KARIEAN Reason: 1 am the author of this Location: Date: 202 <del>0-01-26 15.66.56</del> Foxit PhantomPDF Version: 9.4	AY KARIEANNE ; ;701000 ÷ NE document
PART 4 - CONTRACTOR SIGNATU	RE / PARTIE 4 - SIG	NATURE DU C	ONTRACT	EUR	
Name and Title of individual authorized to sign on beh Nom et titre Signature de la personne autorisée à sign	Pay Incr alf of the Contractor / ner au nom de l'entrepreneur	Signature	A	Jan	282020 Date